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ANNUAL REPORT
of the
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

FISCAL YEAR ENDING JUNE 30, 1962

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ANNUAL REPORT

of the

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

FISCAL YEAR ENDING JUNE 30, 1962

GEORGE CHRISTOPHER____________________Mayor

SHERMAN P. DUCKEL______Chief Administrative Officer

REUBEN H. OWENS___________Director of Public Works

Material compiled by John A. Jelincich, Bureau of Engineering

61/62

Reuben H. Owens
Director of Public Works

M.R.L.

Table of Contents

DIRECTOR'S LETTER OF TRANSMITTAL 5

BUREAU OF ENGINEERING 7

BUREAU OF ARCHITECTURE 56

BUREAU OF BUILDING INSPECTION 78

MAINTENANCE AND OPERATION 92

- BUREAU OF STREET REPAIR 95
- BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT . 104
- BUREAU OF BUILDING REPAIR 122
- BUREAU OF STREET CLEANING AND PLANTING 131

ADMINISTRATIVE BUREAUS 142

- BUREAU OF ACCOUNTS 142
- CENTRAL PERMIT BUREAU 148

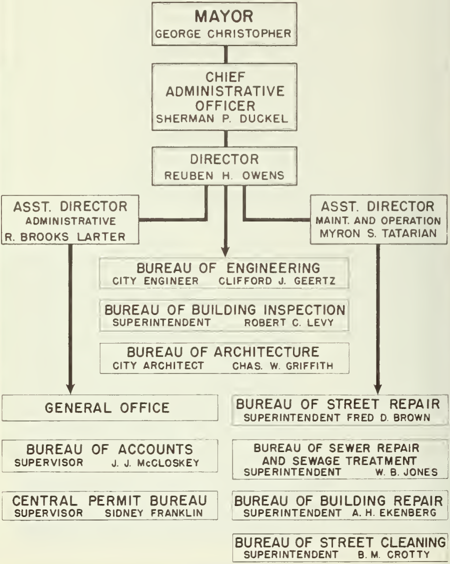
APPENDICES

I - Current Contract Data, Bureau of Engineering
II - Current Contract Data, Bureau of Architecture

ORGANIZATION CHART

DEPARTMENT OF PUBLIC WORKS

CITY AND COUNTY OF SAN FRANCISCO
JUNE 30, 1962


MAYOR
GEORGE CHRISTOPHER
CHIEF ADMINISTRATIVE OFFICER
SHERMAN P. DUCKEL
DIRECTOR
REUBEN H. OWENS
ASST. DIRECTOR
ADMINISTRATIVE
R. BROOKS LARTER
ASST. DIRECTOR
MAINT. AND OPERATION
MYRON S. TATARIAN
BUREAU OF ENGINEERING
CITY ENGINEER CLIFFORD J. GEERTZ
BUREAU OF BUILDING INSPECTION
SUPERINTENDENT ROBERT C. LEVY
BUREAU OF ARCHITECTURE
CITY ARCHITECT CHAS. W. GRIFFITH
GENERAL OFFICE
BUREAU OF ACCOUNTS
SUPERVISOR J. J. McCLOSKEY
CENTRAL PERMIT BUREAU
SUPERVISOR SIDNEY FRANKLIN
BUREAU OF STREET REPAIR
SUPERINTENDENT FRED D. BROWN
BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT
SUPERINTENDENT W. B. JONES
BUREAU OF BUILDING REPAIR
SUPERINTENDENT A. H. EKENBERG
BUREAU OF STREET CLEANING
SUPERINTENDENT B. M. CROTTY

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE
DIRECTOR OF PUBLIC WORKS

260 CITY HALL
SAN FRANCISCO 2
CALIFORNIA

February 20, 1963

Annual Report
1961-1962

Mr. Sherman P. Duckel
Chief Administrative Officer
City and County of San Francisco

Dear Mr. Duckel:

In compliance with the provisions of Section 20 of the Charter of the City and County of San Francisco, I submit the annual report of the Department of Public Works for the fiscal year ending June 30, 1962.

During the year 246 construction contracts were awarded with a total bid amount of $12,335,949. This was an increase of 6% in the number of contracts, and a decrease of 21% in the value of contracts awarded in the preceding year.

Major projects completed or under construction include the new Hall of Justice, the rehabilitation of the Steinhart Aquarium, the Geary Expressway between Franklin Street and Masonic Avenue including the Fillmore Street Underpass, first unit of the Division Street Auxiliary Sewer, and two new high schools, Lowell High School in the southwest section of the City and Woodrow Wilson in the southeast.

There were 13,816 building permits issued for private construction projects with an extimated construction cost of $115,308,525. This was an increase of 7% in number of permits, and a decrease of 4% in estimated cost of construction.

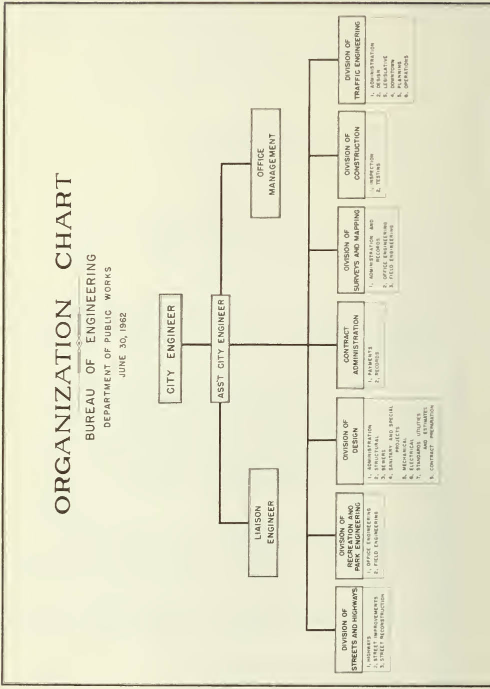
The Assistant Directors, the Bureau Heads, their staffs, and the personnel of the Department are to be commended for jobs well done.

I thank you for your consideration and assistance throughout the year.

Very truly yours,

Reuben H. Owens

Reuben H. Owens
Director of Public Works


ORGANIZATION CHART
BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
JUNE 30, 1962
CITY ENGINEER
ASS'T CITY ENGINEER
LIAISON ENGINEER
OFFICE MANAGEMENT
DIVISION OF STREETS AND HIGHWAYS
1, HIGHWAYS
2, STREET IMPROVEMENTS
3, STREET RECONSTRUCTION
DIVISION OF RECREATION AND PARK ENGINEERING
1, OFFICE ENGINEERING
2, FIELD ENGINEERING
DIVISION OF DESIGN
1, ADMINISTRATION
2, STRUCTURAL
3, SEWERS
4, SANITARY AND SPECIAL PROJECTS
5, MECHANICAL
6, ELECTRICAL
7, STANDARDS UTILITIES AND ESTIMATES
8, CONTRACT PREPARATION
CONTRACT ADMINISTRATION
1, PAYMENTS
2, RECORDS
DIVISION OF SURVEYS AND MAPPING
1, ADMINISTRATION AND RECORDS
2, OFFICE ENGINEERING
3, FIELD ENGINEERING
DIVISION OF CONSTRUCTION
1, INSPECTION
2, TESTING
DIVISION OF TRAFFIC ENGINEERING
1, ADMINISTRATION
2, DESIGN
3, LEGISLATIVE
4, DOWNTOWN
5, PLANNING
6, OPERATIONS

BUREAU OF ENGINEERING

Clifford J. Geertz, City Engineer

GENERAL FUNCTIONS OF THE BUREAU

The easiest way of describing the activities of the Bureau of Engineering is to state that all municipal engineering in the City of San Francisco is done by the Bureau with the exception of that required for water supply, airport, Municipal Railway (Public Utilities Commission) and building permits and inspection of private structures (Bureau of Building Inspection.)

The municipal engineering activities which are left to the Bureau of Engineering are large in number of projects, range from small to very costly in size and vary from minor to extensively complicated technological studies and contracts.

In general, the manpower efforts of the Bureau were divided into approximately three equal parts: the planning, designing and construction of the City Street System including traffic operations; the planning, designing and construction of the Sewer and Sewage Treatment System: and General Engineering Services both for other city departments and those directly connected with the public.

Typical of work improving the City Street System and completed during the fiscal year was the Geary Expressway. This was an integrated project coordinated with the efforts of many departments in the redevelopment of Area A of the Western Addition district. Its traffic benefits are realized by roughly 30% of the City's population.

GEARY EXPRESSWAY UNDERPASS AT
FILLMORE STREET DURING CONSTRUCTION

GEARY EXPRESSWAY UNDERPASS AT
FILLMORE STREET AFTER CONSTRUCTION

A significant example of work on the City Sewer and Sewage Treatment System was a half-million dollar contract enlarging the Division Street sewer by one-fourth to provide storm relief with a flow capacity equal to the average flow of the Tuolumne River below the Hetch-Hetchy Reservoir.

DIVISION STREET AUXILLIARY SEWER EXISTING 9'-6" x 8'-3" BARRELS

Engineering Services for other departments included such important jobs as a unique ventilation system to control staphylococcus infection at Laguna Honda Home; an ingenious sea water collector system for Steinhart Aquarium and major repair of a 90-foot high power plant chimney at the San Francisco Hospital during continuous operation.

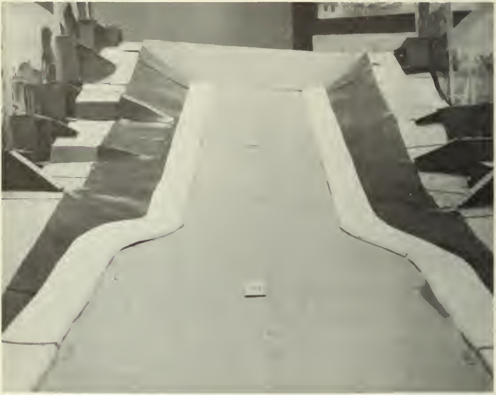
Engineering Services directly connected with the Public consisted of a multitude of small and varied services such as the inspection of 26,000 sidewalk frontages and the serving of notices when repairs were necessary or 19,000 approvals of street excavation permits after study to insure that pedestrians and traffic would be safe and inconvenience would be minimized. There are approximately 25 different types of inspections and surveys that are made at the direct request of the public ranging from house moving permits to the need for stop signs and the abatement of weed nuisances.

CITY STREET SYSTEM

The Bureau of Engineering has continued to play an important part in the City Street System. While the largest number of man hours is spent on maintaining and operating the existing 816 miles of streets the Bureau played a major role in the expansion of this system - a system representing a replacement value of 700 millions of dollars.

Included in the planning of streets was the approval for five subdivisions which added over three miles of paved streets. All subdivisions must provide streets which meet the city standards for structural, safety and capacity needs. In addition the Bureau designed and either constructed under assessment proceedings or permitted private contracts to be let for an additional three miles of new streets. Street improvements in San Francisco are nearly all very difficult today because most streets remaining to be built are on the sides of the steepest hills and usually have a few existing homes located without relation to the street or to each other.

The most spectacular planning, however, has to do with freeways. The Bureau's Liaison Engineer regularly "looks over the shoulders" of the state highway engineers - his assignment is to keep not only the Bureau but other departments informed of Freeway Planning and Design progress being made. This day-to-day contact creates the opportunity to obtain many benefits for the City before a change in plans would become too costly. All freeway plans are routinely reviewed in detail by the Bureau's Highway and Traffic Engineers in coordination with other departments at various stages of development prior to top level review by the City Engineer and Director.



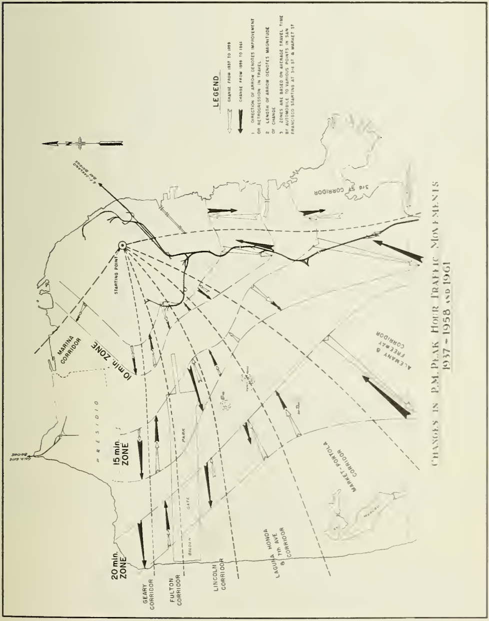
MODEL OF DAY STREET

Routine street reconstruction, street resurfacing, street and sidewalk inspections, and street traffic management or keeping the "plant" in operating condition is the most important function. Only by keeping up with maintenance can more costly rebuilding be avoided and only by constant and early attention can safety on our streets be kept at the highest level and inconvenience to pedestrians and motorists be kept at the lowest possible level.

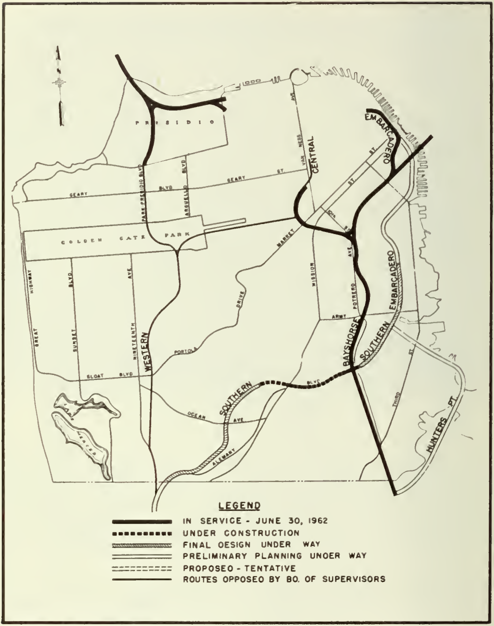
With the exception of building streets for the first time, which is an obligation of the property owner, approximately 100% of the funds spent on our streets is paid for out of gas tax revenue.

What of the future? In 1959 comprehensive traffic studies proved that even with a doubling of traffic in twenty years traffic moved on the average as conveniently as it did in 1938. Now, two years later, the same type of studies show a slowing down of traffic in many sections of San Francisco. Development of all modes of transportation must go forward at a rapid rate if the City is not to suffer serious congestion.

Measured in dollars and cents it was reported to the State Director of Public Works that San Francisco as of June 30, 1961, has 27.17 miles of deficiencies in our street system and it will cost over $26,264,000 to correct these deficiencies in addition to needed freeway extensions.


LEGEND
CHANGE FROM 1937 TO 1958
CHANGE FROM 1958 TO 1961
1 DIRECTION OF ARROW DENOTES IMPROVEMENT OR RETROGRESSION IN TRAVEL
2 LENGTH OF ARROW DENOTES MAGNITUDE OF CHANGE
3 ZONES ARE BASED ON AVERAGE TRAVEL TIME BY AUTOMOBILE TO VARIOUS POINTS IN SAN FRANCISCO STARTING AT 3rd ST & MARKET ST
STARTING POINT
3rd ST CORRIDOR
ALEMANY & FREEWAY CORRIDOR
MARKET-PORTOLA CORRIDOR
MARINA CORRIDOR
10 min. ZONE
15 min. ZONE
20 min. ZONE
PRESIDIO
GOLDEN GATE PARK
GEARY CORRIDOR
FULTON CORRIDOR
LINCOLN CORRIDOR
LAGUNA HONDA & 7th AVE CORRIDOR

CHANGES IN P.M. PEAK HOUR TRAFFIC MOVEMENTS 1937 - 1958 AND 1961



PLAN OF FREEWAY SYSTEM

THE CITY SEWER AND SEWAGE TREATMENT SYSTEM

Only Paris and TV's "Honeymooners" have been able to put romance into the subject of city sewers and sewage disposal. Yet without a system for the conveyance and disposal of sewage, cities could not exist in the manner with which we have now become accustomed.

San Francisco has 860 miles of sewers, 15 pumping stations and three large sewage treatment plants. This system has a replacement value in excess of 450 million dollars.

There was a time when nearly all of our raw sewage was dumped into San Francisco Bay or the Pacific Ocean. Practically speaking, this condition no longer exists. The health of our people and those in nearby communities has required that we treat about 82 million gallons per day. This is a tremendous engineering job and the Bureau is constantly employed in designing improvements for both the sewer system and the treatment system.

The major improvement in the treatment system this fiscal year was the construction of a 100-ton elevated storage bin for the Southeast Sewage Treatment Plant to provide the facility necessary for the disposal of sludge filter cake by transport to the Sanitary Garbage Fill.

As sewage treatment is a highly complicated and costly process, it is more efficient to have a few large plants rather than many small plants. San Francisco's three plants are: the Southeast at Jerrold Avenue and Phelps Street; the Richmond-Sunset in Golden Gate Park near Lincoln Way and Great Highway; and the North Point at Bay Street and Grant Avenue.

Because of the hilly terrain in San Francisco, all sewage cannot be carried to the treatment plants by gravity alone. Therefore, pumping is required in some areas. A major research activity this year was the development of a new pumping system that will greatly reduce maintenance costs as soon as pumping stations can be rebuilt.

Storm water likewise presents major engineering problems. Since San Francisco has a combined storm - sanitary system, large diversion structures are required to divert storm water away from the treatment plants so that they will not be overloaded.

Like all things, sewers get old too. To anticipate needed repairs and thus avoid possible damage to public and private property, cameras are used to inspect the inside of sewers that are too small for manual inspection. This, however, is a slow and tedious job requiring a continuous program.

The major use of engineering manpower as a result of these inspections is the reconstruction of old sewers as distinguished from the repair work done by the Bureau of Sewer Repair. Although some sewers that were built as early as 1864 are believed to be in good operating condition, inspections reveal that most of the old sewers are inefficient or in need of major reconstruction. Others because of diversion from Bay outlets to treatment plants or because of major land use changes must be enlarged.

Practically all financing of planning, design and construction of sewers and sewage treatment plants is by bond issue. Several bond issues have been provided in the past but few funds have been included in the ad valorem tax rate. Because of this method of financing, it is anticipated that additional bonds will be required in 1966.

GENERAL ENGINEERING SERVICES

As mentioned earlier, with the exception of the Public Utilities Commission and the Bureau of Building Inspection, the Bureau of Engineering provides engineering services for all other City departments.

The largest group of services provided by the Bureau to a single department is to the Recreation and Park Department. In 1961-62, almost a half million dollars in contracts were awarded by the Bureau for the improvement of our parks and recreation facilities. The largest of these was a professional contract for preparing the Arboretum Irrigation and Landscape Development plans. Other services provided for the Recreation and Park Department varied from paddock fencing at the Zoo to playground construction on Mt. Sutro Reservoir and installation of a water storage tank at Camp Mather as well as routine major maintenance items such as painting and glazing, resurfacing of courts and servicing flood lights. About half of the cost of the work performed for this department was financed from ad valorem taxes and the balance from bonds or bequests.

While indirectly serving many different city departments, the design of a wide variety of engineering projects, particularly electrical and mechanical in nature, which are incorporated into contracts by the Bureau of Architecture constitute the largest actual group of services.

Economic studies of public parking lots and garages as well as planing and review of design of garages for the Parking Authority was an important activity of the Bureau last year. The review of complicated residential parking facilities as to conformance to the "one for one" parking law administered by the City Planning Commission, and the preparation of cost estimates for the Redevelopment Agency of street, traffic, lighting and sewer improvements are examples of other engineering services provided by the Bureau of Engineering.

PORTSMOUTH SQUARE GARAGE
PHOTO COURTESY AERO PHOTOGRAPHERS

SERVICES DIRECTLY CONNECTED WITH THE PUBLIC

The services that are directly connected with the public are numerous. They stem from practically every activity in which the Department of Public Works is engaged although the preponderance concern proposed subdivisions, traffic matters, review of permit applications, and street improvements. About one million dollars was expended in the performance of those services during fiscal year 1961-62. Approximately one-third of this amount was chargeable against gas tax funds and two-thirds against the general fund. A substantial portion of the services chargeable to the general fund are supported by permit fees.

During the year, a Bureau of Engineering inspector was assigned space in the office of the Bureau of Building Inspection for our review of building permit applications. While the primary purpose of this innovation was to speed up the processing of building permits, it also enabled us to obtain closer control over sidewalk and driveway design and the issuance of street occupancy permits than had been possible in the past.

Staff, Work and Funds

The management of the Bureau of Engineering is under the direction of the City Engineer. For the purpose of supervision the staff of 230 is divided into eight divisions and again in to 25 sections as shown on the organization chart. The staff is composed of 107 professional engineers, 96 engineering assistants and 27 clerical employees.

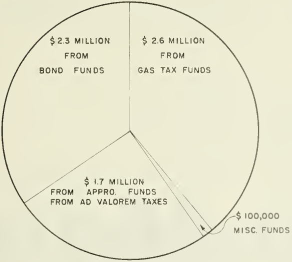
This is approximately 20 less personnel than the Bureau staff had last year.

Of the professional staff many are recognized as highly skilled in particular fields of municipal and general engineering and actively participate in numerous specialized professional organizations. In addition, the services of competent private engineers are obtained to provide unusual engineering skills when unavailable on the Bureau Staff or when unusual demands for work exceed Bureau manpower.

While varying from year to year the source of funds for 1961-62 to operate the Bureau amounted to less than seven million dollars of which approximately one-third came from each of three principal sources: Bond Funds, Gas Tax Funds and Funds budgeted by the Board of Supervisors.

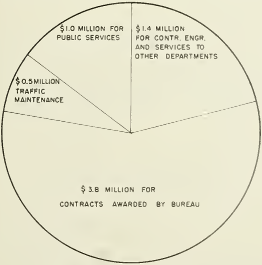
The largest class of expenditures was for the award of contracts; however, significant monies were expended to do the planning, designing and preparation of plans and specifications for Bureau contracts and those services rendered other departments. The cost of direct services to the public were likewise significantly large.

During the past year 108 contracts were awarded with an aggregate value of $3,918,000 as compared to 153 contracts with a value of $4,885,000 in 1960-61. This represented a reduction of about 20%. The magnitude of the projects as well as timing in relation to other activities and availability of funds, accounts for the variation in number and size of contracts awarded from year to year.



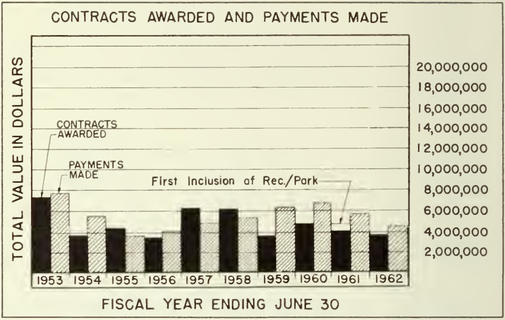
TOTAL $ 6.7 MILLION

APPROXIMATE BUREAU FUNDS 1961-62



TOTAL $ 6.7 MILLION

APPROXIMATE BUREAU EXPENDITURES
1961 - 62



CONTRACTS AWARDED AND PAYMENTS MADE

Table 1 shows the breakdown of contracts awarded and payments made according to the type of construction.

TABLE I

TABLE	TITLE TYPE OF CONST.	NO.	AWARD VALUE	AMOUNT EXPENDED
A	Major Thoroughfares	1	$265,354.14	$967,515.17
B-1	Streets - Private Contracts	12	86,125.00	366,037.00
B-2	Streets - Assessments	13	216,167.13	173,864.35
B-3	Streets - City Pay	8	467,551.30	409,630.77
C	Traffic Signals and Channelization	6	138,558.45	99,115.99
D-1	Sewers - Pipe, VCP, Conc.	5	400,486.70	485,009.33
D-2	Sewers - Conc.Monolithic	6	1,277,316.00	620,118.42

TABLE	TITLE TYPE OF CONST.	NO.	AWARD VALUE	AMOUNT EXPENDED
E	Recreation/Park	31	449,893.50	235,784.85
F	Miscellaneous	26	617,006.64	941,666.55
	TOTAL by Bureau of Engineering	108	$3,918,458.86	$4,298,692.43
	Engineering Plans and Specifications for Bureau of Architecture Contracts			$1,552.630.00
	GRAND TOTAL..............................			$5,851,322.43

Blyth-Zellerbach Recommendations

One of the major administrative activities of 1961-62 was the detailed study and consideration of the recommendations made by the Mayor's Municipal Management Committee contained in the Blyth-Zellerbach Report.

Of the twenty recommendations regarding the Bureau of Engineering seven were placed in operation; four were to be adopted and budget requests for implementation were requested for 1962-63; three were dependent upon future bond issues; three were not within the jurisdiction of the Department and three were considered unacceptable after considerable detailed study.

OUTSTANDING PROJECTS

SEA WATER COLLECTOR FOR STEINHART AQUARIUM

Althouth the Ocean appears to be an easy source of large quantities of sea water for various commercial and recreational uses, the actual development and maintenance of a dependable source of supply is not an easy matter. Permanent installations in the Ocean surf are subject to both heavy wave action and corrosion. In addition they present a danger to the public by serving as unofficial fishing piers.

This problem was solved during the development of a new source of salt water for the Steinhart Aquarium by the construction of a reinforced concrete shaft, 16-ft. diameter by 35-ft. deep, in the Beach area at about surf line opposite Golden Gate Park.

The shaft was constructed by the caisson method. A series of precast concrete sections were sunk under their own weight by excavating under the lower edge. The caisson was sealed by a 12-ft. tremie pour and pumped dry. Three 98-ft. long horizontal perforated fiber glass collector pipes were installed at a depth of about 20 feet, radiating out toward the Ocean. This system, known commercially as a "Ranney Collector," offers the advantage of a constant source of water of consistent salinity and serves as a screening and pre-filtering system augmenting the filtering system used at the Aquarium.

The low turbidity of the water collector is probably the system's main advantage over any type of open intake in the Ocean, especially in an area subject to heavy surf and changing sand levels.

An underground pumping station adjacent to the collector but behind the sea wall, and a 14,000-ft. pipe line of 4" diameter asbestos cement pipe, complete the system. While the present capacity is more than adequate at 65gpm, anticipated enlargements of the Aquarium will increase the demand to 250gpm. Hydrogeological studies made during the planning stage indicate this flow can be developed and provision for additional horizontal collectors and pumping capacity has been made in the design.

The contract cost of the Ranney Collector was $79,250. The contract cost of the pumping station and pipe line was $107,311. The completed system is expected to have very low maintenance cost. The only exposed portion is the capped collector caisson, the upper 5 feet of which is visible in the surf.

LAGUNA HONDA HOME LAUNDRY VENTILATION

In recent years much publicity has been given to the problems encountered by hospitals in control of staphylococcus infections. These problems have their medical basis in the emergence of a strain of staphylococcus aureua which is highly resistant to the commonly-used antibiotics. The infections, while not lethal in themselves, complicate treatment of other diseases and sometimes even prevent successful treatment, particularly in older patients.

It has been found by many hospitals that one of the principal sources of infection and re-infection is the linen used in the sickroom. Accordingly, at the suggestion of the Bureau of Hospitals of the California State

Public Health Department a study was made jointly by the Laguna Honda Home staff and our mechanical engineers to determine if the clean linen being issued from the Laundry was reasonably free of the troublesome organisms and, if not, how was it being contaminated.

Cultures of air and surface samples proved that a serious contamination problem did in fact exist, and analysis of air currents within the Laundry building showed that there existed a clear channel for transmission of air-borne colonies of staphylococcus aureus from the soiled linen receiving and sorting area through the washing, drying, ironing and pressing areas to the clean-linen storage areas.

In modern hospital laundries, interruption of the channel is usually accomplished by physical separation of the soiled linen receiving and sorting area from the rest of the plant, and delivery of soiled materials to the washers by gravity through enclosed chutes and ducts. At Laguna Honda Home, however, since the Laundry is located in a building converted from another use, it is not practical to accomplish such separation. The solution chosen was to organize the laundry into functional areas and ventilate each area in such manner as to preclude transfer of air from one area to another even though there existed little or no structural separation between them.

The designated areas were:

(1) Uncontaminated, including the drying, ironing and pressing areas, and the clean linen storage area;
(2) Partially contaminated, which is the washer area;
(3) Contaminated, which is the soiled linen receiving and sorting area.

The most unique feature of the final design of the corrective work was the method for isolating the contaminated area from the washer area which permits unrestricted passage for employees, laundry batch carts and other equipment, yet effectively prevents transfer of any air regardless of the activity and even though subject to high velocity gusts of wind when outside doors to the soiled linen receiving area are opened to admit trucks bringing soiled linen from the ward buildings. The separation between these areas consists of an existing concrete wall pierced by a 10' x 10' open doorway, which is being equipped with an "Air Curtain", which is, as its name implies, a curtain of air flowing across the doorway, maintained in place by a carefully engineered package of fans, ducts, filters and controls, and moving at such velocity as to resist penetration by particles, air, or gases moving at less than gate velocity. However, no resistance is offered to solid objects nor any discomfort to humans when standing or passing through the moving air. It is believed that no other "Air Curtain" exists in the Bay Area, although much larger installations are known to be in successful operation in Reno and New York.

In addition to prevention of the transmission of staphylococcus aureus through the building, two positive steps were taken toward reducing its strength in the contaminated area. First, to prevent staph colonies from developing in the "Air Curtain" equipment and possibly escaping occasionally into cleaner areas, a chamber was provided wherein the moving air passes through a bank of ultra-violet radiation tubes. Sufficient radiation is supplied to kill an estimated 90 percent of entrained organisms. Second, all air in the contaminated area is changed several times per hour, and is likewise irradiated to reduce the heavy load of entrained organisms to insignificant proportions.

ARMY AND GUERRERO STS. RECHANNELIZATION

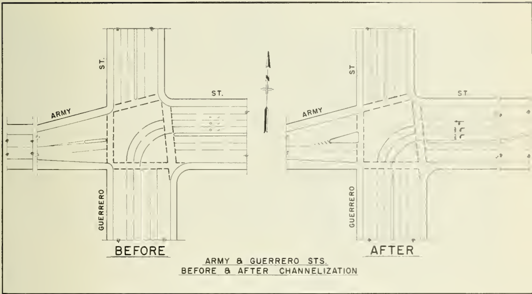
The continued increase in traffic volumes on Army Street (24,000 vehicles per day) has necessitated changes at all intersections such as increased cycle lengths and left turn prohibitions to maintain its ability to handle traffic.

While improvements were made in signal timing at the intersection of Army and Guerrero Streets, the accident and congestion picture at this particular intersection indicated that physical changes in the roadway were necessary. For example, during 1960 and 1961, 41 accidents took place at this intersection resulting in nine personal injuries and one fatality. At the peak hour, the intersection was the focal point of congestion. Analysis showed that the traffic volumes on the two sides of the roadway were highly unbalanced with approximately 8,000 vehicles per day eastbound and 16,000 vehicles per day westbound.

The extremely heavy left turn necessitated that two lanes be reserved solely for the left turn and that the third be optional. Because of the difficulty of informing motorists of this requirement due to the normal appearance of the intersection, the LEFT TURN ONLY regulations were often violated.

Special pavement markings, special signs and institution of peak-hour towaway were initially tried in an effort to correct the difficulties without major redesign. Study finally showed that the problem could only be relieved by shifting the center island ten feet southerly so as to provide four moving lanes for westbound traffic and two moving lanes for eastbound traffic. This change not only provided capacity more nearly in accord with the volumes of traffic using the intersection but also channelized traffic in a manner that made a straight through movement through the intersection unnatural for a motorist located in the multiple turning lanes.

Fig. No. 1 shows the "before" and "after" condition.



ARMY & GUERRERO STS.
BEFORE & AFTER CHANNELIZATION

FIG. 1

Since the change has taken place, violations of the LEFT TURN ONLY restriction have been reduced to practically nil. Accidents have dropped from an average of two per month to one every two months, and congestion in the peak hour has been eliminated. In addition, the towaway restriction was no longer necessary and has been lifted.

ARMY AND GUERRERO STREETS CHANNELIZATION

PM PEAK HOUR TRAFFIC STUDIES

The Division made extensive evening peak hour travel time studies in 1961 to determine how traffic movement has either improved or retrogressed in the three years since 1958. This is important since it is an indicator of the effectiveness of millions of dollars spent annually for highway improvements in San Francisco. Fig. 2, the time zone map, shows that it takes anywhere from 17 to 25 minutes to reach the boundaries of the City from Third and Market. Congestion has increased on the Turk-Balboa, Market-Portola, and James Lick Freeway-Alemany Boulevard corridors. On the other hand, travel speeds are up on Bay Street, Geary Street, Fell Street, Lincoln Way and Third Street. These corridors have all shown traffic volume increases ranging from five to twelve percent. The following table lists the improvements or retrogressions in each corridor and the probable causes.

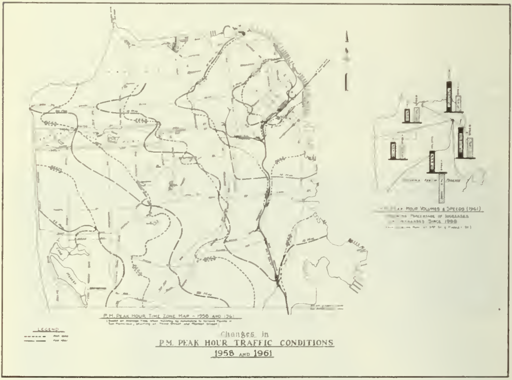
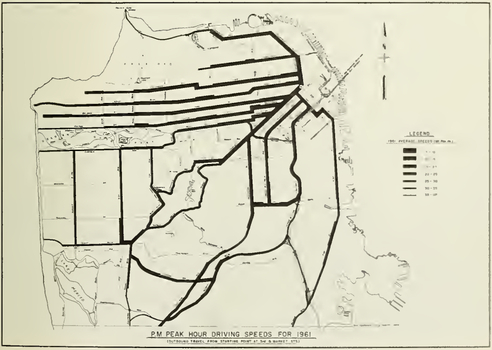

P.M. PEAK HOUR TIME ZONE MAP – 1958 AND 1961
LEGEND
P.M. PEAK HOUR VOLUMES & SPEEDS (1961)
SINCE 1958
Changes in
P.M. PEAK HOUR TRAFFIC CONDITIONS
1958 AND 1961

FIG. 2

Corridor	Volume Increase	Speed Improvement	Probable Cause
Third Street	11.6%	7%	Improvement of traffic signals at 3rd and Berry.
Freeway & Alemany	8%	-11%	Lack of capacity on James Lick Freeway
Southwest	6%	5%	Central Freeway extension to Fell Street, and towaway and improved signal timing on Fell Street
Geary	5%	5%	Geary Expressway and Geary Blvd. reconstruction
North Beach-Marina	11.4%	6%	Left turn prohibitions at Broadway and Columbus, improved signal timing on Columbus and Bay.



P.M PEAK HOUR DRIVING SPEEDS FOR 1961
(OUTBOUND TRAVEL FROM STARTING POINT AT 3rd & MARKET STS.)

FIG. 3

Fig.3 shows the peak hour travel speeds on most of the major City arterials. As a general rule, most of the speeds in the downtown area fall below 15 miles per hour; in the intermediate areas they range from 15 to 25 miles per hour; and in the outer extremities they run from 20 to 35 miles per hour.

Despite more than doubling the 1937 traffic volumes, traffic speeds have increased on those corridors serving the southeast and southwest portions of the City along the Bayshore Freeway and Alemany Boulevard. They have also improved along Lincoln Way and Geary Boulevard. Some drop in travel speed has taken place along Portola Drive and Fulton Street.

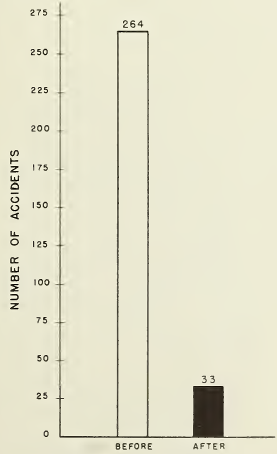
"BEFORE" AND "AFTER" ACCIDENT EXPERIENCE WITH NEW STOP SIGNS

The Department of Public Works in its advisory function to the Board of Supervisors adopts an objective viewpoint toward all new STOP sign requests as well as those that analysis by the Department itself indicate are needed. Warrants based on accidents, speeds, and sight distance and special conditions are adhered to in determining whether or not STOP signs will be recommended to the Board of Supervisors. In almost all cases, the Board abides by the recommendation of the Department. This has had a gratifying result as can be seen from the attached diagram. It shows that at the 33 locations where STOP signs were installed in 1960, total accidents per year dropped from 264 to 33, or an 8 to 1 reduction.

BEACH AND POWELL STREETS

New Crosswalks reduced accidents from 23 to 3 without the installation of stop signs.

At some locations, despite high accident rates, STOP signs may not be warranted and other remedial measures will be equally effective. An example is the intersection of Beach and Powell Streets, which in one year had 23 accidents, all of which were right-angle collisions. Field studies show that high fences, heavy parking, and narrow roadways tended to decrease the sight distance of the driver, his vigilance, and his acknowledgment of an intersection and that the location needed delineation by means of crosswalks. This treatment was tried and the accidents dropped from 23 to 3 in one year. This was a more spectacular decrease than that achieved at any intersection where STOP signs were installed.



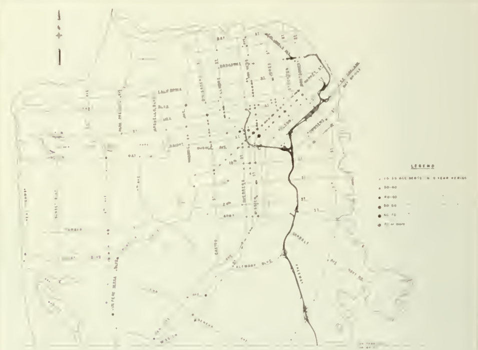
1960 STOP SIGN INSTALLATIONS

BEFORE & AFTER ACCIDENT SUMMARY

BASED ON 1 YR. BEFORE & 1 YR. AFTER AT 33 LOCATIONS.

NIGHTTIME ACCIDENT STUDY

The three following plates indicate some of the results of a continuing study in nighttime accidents being undertaken by the Division. Fig. 4 shows the concentration of all nighttime accidents for a five-year period. Fig. 5 shows the pedestrian nighttime accidents for the same period, and Fig. 6 is an analysis of single vehicle nighttime accident rate taking traffic volume into account. It is hoped to develop relationships between street lighting levels, roadway characteristics, and accident rates by means of this study. These in turn may help to formulate policies on lighting and street improvements which will reduce the annual toll of 8,000 nighttime accidents.



TOTAL NIGHTTIME ACCIDENTS

INTERSECTION & MIDBLOCK

1956 THROUGH 1960

FIG. 4

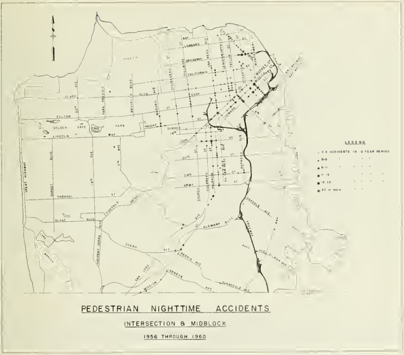

PEDESTRIAN NIGHTTIME ACCIDENTS
INTERSECTION & MIDBLOCK
1956 THROUGH 1960
LEGEND
3-5 ACCIDENTS IN 5 YEAR PERIOD
FULTON
LINCOLN
TARAVAL
SLOAT
GEARY
CALIFORNIA
LOMBARD
BROADWAY
ALEMANY BLVD
OCEAN AVE
GREAT HIGHWAY

FIG. 5

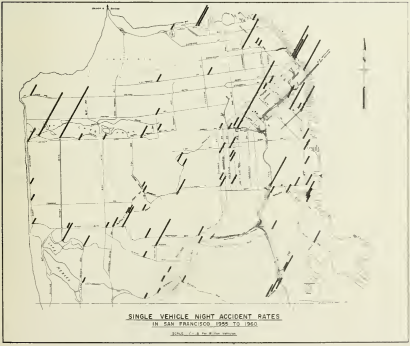

SINGLE VEHICLE NIGHT ACCIDENT RATES
IN SAN FRANCISCO 1955 TO 1960
SCALE 1" = .8 Per Million Vehicles

FIG. 6

STREET LIGHTING IMPROVEMENTS

The improvement of street lighting in San Francisco is normally accomplished when utility facilities are ordered installed underground or when streets are widened or improved. A consequence of this procedure, which was first noted in our Annual Report in 1928, is that street lighting systems have been improved on a piecemeal basis.

Since the Department of Public Works has started its comprehensive street lighting construction program approximately five years ago, there has been a steady move toward a logical scientifically designed system. Each new street lighting installation is watched with interest and statistics kept to show the reduction in traffic accidents. Throughout the nation, street lighting systems are also being installed to combat crime. Outstanding results have been observed in such places as Cleveland, Ohio and New York City. It is our intention to keep statistics on these matters to show the influence of each new street lighting job.

Two systems installed in districts recently declared underground are good examples of the actual savings possible with City ownership.

One of these was installed on Parnassus Avenue between Hillpoint Avenue and Fourth Avenue. This street separates various buildings of the University of California Medical Center and carries a heavy pedestrian and vehicular load including a Municipal Bus Line.

Seventeen 250-watt mercury vapor luminaires were installed on trolley poles to replace sixteen 4000 lumen incandescent luminaires owned by the Pacific Gas and Electric Company. The new system provides approximately 1.0 foot-candle average illumination uniformly distributed on the street. The old system provided about 0.1 foot-candle average illumination with irregular light areas and dark shadows.

Despite the tenfold increase in illumination provided, the new system costs about $252.00 per year less than the system it replaced.

Another typical street lighting system was installed in a residential district on the north and east slopes of Twin Peaks. Part of this system was the heavily travelled Clarendon Avenue. This district is outstanding, even in San Francisco, for the magnificence of the panoramic views from the homes located there. The desire to preserve the views from street light glare plus the fact that the secluded nature of the streets which makes street lights necessary as a police aid caused this to be a difficult task. Twenty-three obsolete Pacific Gas and Electric Company owned street lights on wooden distribution poles were replaced by twenty-seven modern luminaires on steel standards. The new system provides adequate modern lighting in a difficult situation and costs about $95.00 per year less than the obsolete, inadequate system it replaced.

A notable event in San Francisco street lighting history occurred on May 7, 1962 when the report of a study prepared jointly by the Public Utilities Commission and the Department of Public Works was released. This report formally approved the Department of Public Works policy of relating street lighting to traffic and pedestrian needs, but decried the slow progress of the program. A recommendation was made that money be provided for a study to determine the cost of a modern street lighting system and methods of financing such a project. Funds were appropriated, and the study is now proceeding. It is believed that the forthcoming years will see major progress toward solution of the problem of providing our City with street lighting second to none.

FIRE ALARM SYSTEMS

Of recent years, throughout the nation and particularly in San Francisco, there has been a tremendous effort expended to provide adequate fire protection for school children. Previously, a call to the Fire Department was dependent upon the use of the telephone or a nearby street fire alarm box. These facilities were not always available or their location always known to the general public and certainly not always convenient to use.

So that a school fire could be reported in the shortest possible time, It was decided to install auxiliary fire alarm systems in the schools. An auxiliary fire alarm system causes an alarm to be transmitted from a school over the municipal fire alarm system. A responsible school official could then summon the Fire Department to the school without leaving the premises. A municipal fire alarm box was installed in front of each of the 115 schools to which the auxiliary systems were connected. This municipal box could be tripped by the auxiliary station in the school or by passers-by in the same manner and for the same uses as any municipal fire alarm box.

As a further step in fire protection, sprinkler systems and heat detectors are being installed as rapidly as possible in all schools. These automatic devices will, in the ultimate plan, sound an alarm to evacuate the school when they are activated and trip the auxiliary system which, in turn, will summon the Fire Department.

The installation of the auxiliary fire alarm systems in 115 schools, including the furnishing and installing of the master relay in the municipal box and all conduit and connections to the municipal system cost $146,000.00

When the complete systems are installed, complete loss such as in the case of the Jefferson School fire, in August of 1959, which was started on the weekend when the premises were not occupied, will be improbable.

DIVISION STREET AUXILIARY SEWER BETWEEN 10TH AND DE HARO STREETS

This sewer constitutes the major unit of a planned auxiliary sewer which will supplement the Division Street Sewer System Between 16th and Harrison Streets and the outlet at 7th and Channel Streets.

The project, initiated by the Bureau of Engineering to eliminate the many serious flooding complaints over widespread areas in the vicinity of 14th and Harrison Streets and south of Market Street, will, when completed, bring the storm relief capacity of the system up to its ultimate requirement of 2,400 cu.ft. per second, which, by comparison, is equal to the average flow of the Tuolumne River.

The contract for this sewer in the amount of $530,000 is the largest award for sewer construction by the City in the past eight years. The work consists of adding a 9'-6" x 8'-3" rectangular reinforced concrete compartment to an existing sewer having three similar compartments. The resulting sewer is the only four-compartment sewer as well as the largest in the City's system, occupying an overall width of 42 feet.

Pile support was necessary for the entire length of the sewer as the old Mission Creek bed closely follows the sewer alignment.

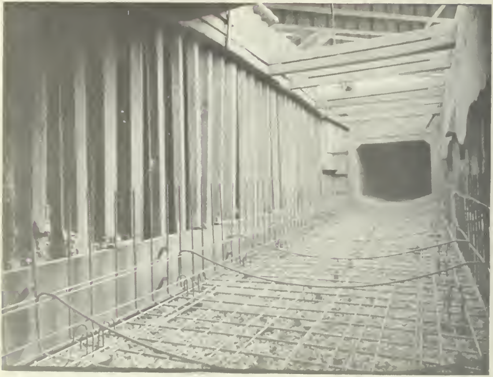
Agreements were negotiated under which the Southern Pacific and Western Pacific Railroad Companies will participate in the work by paying the cost of additional piles and strengthening of the sewer required to accommodate the loads imposed by their trains. Costs payable by the companies will be computed from appropriate bid prices for piles and for sewers under the City's contract. Each Company was required to deposit with the City, in advance of Contract work, a sum estimated to cover its portion of the cost of the work.

◀

DIVISION STREET AUXILIARY SEWER OPPOSITE 8TH STREET
Inside forms and shoring in place.

▶

DIVISION STREET AUXILIARY SEWER NEAR DeHARO ST.
Invert steel in place.



DIVISION STREET AUXILIARY SEWER
Invert steel in place and completed section.

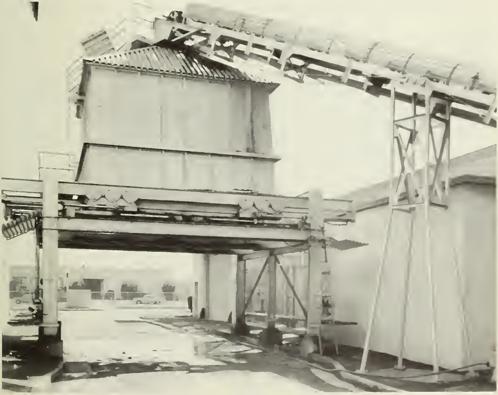
100-TON FILTER CAKE STORAGE BIN

During this year, a $50,000 contract for construction of a 100-ton elevated storage bin with a 7.5 ton per/hour conveyor belt system was completed at the Southeast Sewage Treatment Plant, providing a facility necessary for disposal of sludge filter cake by utilizing the services of a contractor for hauling and spreading on the Sanitary Garbage Fill in northern San Mateo County.

This new facility eliminated the necessity of processing the filter cake through flash dryers, a costly operation amounting to $90,000 per year plus the inconvenience and $50,000 expense of repairing one of the three dryers each year. Further, due to the heavy dust emitted by the dryers, the Bay Area Air Pollution Control Board had prescribed requirements which would have compelled the City to spend an additional $100,000 for a dust collection system.

Although a recent study clearly indicated that liquid disposal of sewage sludge was the most economical over an amortized period, this method presented many complicated technical problems which would require a relatively long period of study. Accordingly, the filter cake disposal method was adopted because of its low first cost and relatively quick results. Studies will continue on the liquid disposal method as a long range solution.

The greatest challenge in the design was to provide a facility that could store and control the "gummy" material which has such a cohesiveness and internal friction factor that it will not discharge under a 15-foot depth of filter cake until the gate opening exceeds two feet. To provide a positive control for the discharge, eight 4 x 8-foot horizontal shear gates were specified operating under a truncated pyramid shaped bin that was divided into four distribution compartments. The gates are operated hydraulically with a system that includes controls to prevent the gates from racking. Operating controls are located on each side of the bin. The gates under fully loaded condition open and close at approximately 0.10 ft/sec.



100 TON ELEVATED STORAGE BIN
AT SOUTHEAST TREATMENT PLANT

With this facility, the Contractor is currently removing 80 tons per day for 5 days a week and, as the actual bid for drying was $1.58/ton instead of the estimated $2.00/ton, the net saving is expected to be $42,000 per year. In additon, 20,000 sq.ft. of building space in the old dryer building is now available for other use.

MIDTOWN TERRACE PLAYGROUND

The Midtown Terrace Playground has been constructed on Water Department property known as the Mt. Sutro Reservoir site. This reinforced concrete covered reservoir contains thirty-one-and-1/2 million gallons of water and supplies water to the higher elevations of the City.

The cover or roof of the reservoir has an area of approximately 5.72 acres. The large flat area afforded the Recreation and Park Department (with the cooperation of the San Francisco Water Department) an opportunity to construct four tennis courts, two basketball courts, two volleyball courts, all of recreational regulation dimension, and a softball diamond, enclosed by a 10-foot high chain link fence. The tennis, basketball, and volleyball courts are paved with emulsified asphalt.

MIDTOWN TERRACE
Rooftop recreation area on Water Department reservoir.

The tennis courts are colored the usual red and green shades while the remaining courts are black. The softball diamond is delineated with striping on the concrete surface of the reservoir roof.

Adjacent to the reservoir a field house about 2,000 square feet and a small-children-apparatus area were constructed last year. All of these combined recreational facilities provide a complete neighborhood playground.

Locating the playground adjacent to and on the reservoir made multiple use of the limited land in the City to the extent that it reduced the land required for community services (recreational and utility.)

This is the first major use of reservoir roofs for recreational purposes in San Francisco and it is expected will lead to other multiple uses of reservoir sites.

TRAFFIC - GOLDEN GATE PARK - MUSIC CONCOURSE

In Golden Gate Park the most popular area is the Music Concourse built in the 1890's. This area has not been changed since then, but additional facilities were added which complicated the traffic problem, both pedestrian and vehicular. The increasing popularity of these facilities has generated the pedestrian traffic flowing between the shows, exhibits and activities of the Academy of Sciences, the DeYoung Museum and the Japanese Tea Garden, all within an afternoon. In between visits many pedestrians rested and relaxed by listening to the band playing at the westerly end of the Concourse. A large portion of the vehicular traffic came from the visitors' own vehicles mixed in with the necessary cross-park city traffic.

To solve this problem a traffic survey was made and a pattern developed from the survey which eliminates vehicular traffic from the Concourse and allows free flow pedestrian traffic between the various facilities and museums. This survey served as a basis for a Master Landscape Plan.

Many studies were made before a Master Plan was finally approved by all the interested agencies some of whom were not anxious to disturb the status quo. However, after many meetings by all concerned the Master Plan was approved which, when carried out completely, will add additional enjoyment to the public by connecting the Concourse area by a pedestrian underpass to the Rhododendron Dell, Fern Dell and the Conservatory.

The through traffic will circumvent the Concourse area by a new road.

The first step in the improvement of the Concourse area has started by the rehabilitation of the 8th-10th Avenue entrance to the Park.

GOLDEN GATE PARK
Tunnel to Music Concourse from 8th and 10th Ave. entrances.

SAN FRANCISCO HOSPITAL POWER PLANT CHIMNEY REPAIR

The 90-ft. high, 6 to 9-ft. diameter, reinforced concrete chimney stack at the San Francisco Hospital power plant has been in operation since 1911. While the chimney has functioned adequately, the 6" wall thickness did not meet present Building Code standards. In addition, the exterior plaster coat on the chimney had cracked extensively and examination showed the cracks extended into the concrete as well, exposing the reinforcing steel to corrosion.

Engineering studies indicated that a replacement steel chimney would cost $31,000 while a 2" reinforced gunite cover on the existing chimney would meet Building Code requirements and prevent further deterioration of the chimney at perhaps one-third the cost of replacement.

However, the Hospital Management specified that the boilers discharging to the chimney could not be shut down at any time and the chimney gases kept the concrete surfaces heated to about 110°F. As it was not known what effect this heat would have on the curing and strength of a gunite cover, a test program was initiated.

Gunite patches using various epoxy resin bonding agents and admixtures were compared with a test patch of plain cement mortar gunite. Conical pull-out samples were prepared in order to estimate the bond of the gunite on the concrete base. On the basis of the tests, it was decided that the plain cement mortar, if applied to a moist clean surface and well cured, provided the best bond. Compression tests indicated the strength of the gunite was unimpaired by the heat.

As a result of these tests, the repair work was done. The plaster coat was completely removed and the exposed concrete surface sand-blasted. The entire chimney was then kept wet with soaker hoses for 12 hours. Two inches of gunite, reinforced with 2x2 12/12 galvanized wire mesh was then applied with horizontal circumferential shrinkage joints formed at 10-ft. vertical intervals. The gunite was continuously water-cured by soaker hoses for 14 days after application.

One year after completion of the work, the gunite shows no cracks except at the shrinkage joints. The underlying cracks in the concrete have not appeared on the surface of the gunite.

Contract cost of the work was $7,737. The area covered was 2300 square feet.

BUREAU OF ENGINEERING

SERVICES PERFORMED IN 1961 - 1962

In addition to the planning, designing and construction inspection of contracts the following tables summarize the major services which were provided other departments, and the general public.

DIVISION OF SURVEYS AND MAPPING

Table I- A	Subdivisions and Street Changes
B	Field Surveys
C	Miscellaneous Surveys and Studies

DIVISION OF STREETS AND HIGHWAYS

Table II- A	Street Improvements
B	Permits and Inspections of Streets and Sidewalks

DIVISION OF TRAFFIC ENGINEERING

Table III-A	Traffic Legislation
B	Traffic and Street Name Signs
C	Parking Meters
D	Pavement Painting
E	Traffic Signals and Channelization
F	Services to Public and Other Departments

DIVISION OF SURVEYS AND MAPPING

TABLE I-A

SUBDIVISION AND STREET CHANGES

SUBDIVISION MAPS

Subdivision development in San Francisco has almost been completed because so few large land areas in the County remain unimproved. Smaller areas, however, continue to be subdivided principally by Record of Survey Maps in accordance with the Subdivision Map Act, but areas such as this are also becoming scarce. The disposition of maps relating to subdivision follows:

Tentative Subdivision Maps examined and approved:
- Diamond Heights Subdivision, Unit One
- Diamond Heights Subdivision, Unit Two
- Sunnydale Green Subdivision
- Vista Francisco Subdivision
- "The Hamilton" Condominium Subdivision

Final Subdivision Maps examined, approved and recorded:
- Diamond Heights Subdivision, Unit One
- Diamond Heights Subdivision, Unit Two
- Sunnydale Green Subdivision

Record of Survey Maps examined and recorded:

- California State Highway Control Map
- Southern Hills Subdivision No. 2B
- Golden Gateway
- Portion Block 7514, Diamond Heights, Unit One
- Portion Block 7505, Diamond Heights, Unit One
- Portion Blocks 7509 and 7510, Diamond Heights, Unit One
- Portion Block 2051A, Golden Gate Heights
- Portion Block 7513, Diamond Heights, Unit One
- Portion Block 7505, Diamond Heights, Unit One
- Portion Block 7509, Diamond Heights, Unit One
- Portion Blocks 7504 and 7505, Diamond Heights, Unit One
- Portion of Assessor's Blocks 6494, 6495, and 6496
- Portion Block 7511, Diamond Heights, Unit One
- Block 41 University Mound

STREET DEDICATION MAPS APPROVED AND RECORDED

Widening of a Portion of Clayton Street Westerly of Market Street
Widening of a Portion of Melrose Avenue Westerly of Congo Street
Opening of Rosemary Court East of Twenty-fifth Avenue
Opening of Peters Avenue Southwesterly from Fair Avenue
Widening of Geary Boulevard between Broderick Street and Franklin Street
Opening of Starr King Way between Geary Boulevard and O'Farrell Street
Widening of Post Street between Gough Street and Franklin Street and opening of Peter Yorke Way between Geary Boulevard and Post Street
Opening of Brumiss Terrace Northeasterly from Acton Street
Extension of Peninsula Avenue and Wheeler Avenue, Northerly to Hester Avenue
Extension of Tunnel Avenue, Southerly to the County Line
Widening of Army Street between Third Street and Maryland Street
Widening of Dalewood Way, Northeasterly of Sherwood Forest Subdivision No. 2
Extension of Bowdoin Street, South of Mansell Street
Widening of Crestmont Drive, Easterly from Forest Knolls Subdivision No. 3
Opening of Middle Point Road, West Point Road, Wills Street and Hare Street

STREET VACATIONS APPROVED

South Van Ness Avenue	Thirteenth Street to 213 feet Northerly on its Westerly side
Burnett Avenue	Golding Lane to 57 feet Northerly on its Easterly side
Alpha Street	Tucker Avenue to Tioga Avenue on its Westerly side
Tioga Avenue	Alpha Street to 48 feet Westerly on its Southerly side
Moultrie Street	Esmeralda Avenue to 119 feet Northerly
Esmeralda Avenue	Shotwell Street to 229 feet Westerly on its Northerly side
Brenham Place	Clay Street to Washington Street on its Easterly side
Visitacion Avenue	Tunnel Avenue to 87 feet Easterly of Bay Shore Boulevard
Sunnydale Avenue	County Line to 272 feet Easterly of Bay Shore Boulevard
Hart Street	Sunnydale Avenue to Visitacion Avenue

STREET VACATIONS APPROVED (Continued)

Evatt Street	County Line to Visitacion Avenue
Channel Street	Florida Street to 200 feet Easterly
Florida Street	Division Street to Channel Street
Buchanan Street	O'Farrell Street to Post Street
O'Farrell Street	Laguna Street to Hollis Street
O'Farrell Street	Starr King Way to 190 feet Westerly of Gough Street
Dunbar Alley	Washington Street to Merchant Street

CHANGES IN OFFICIAL WIDTH OF SIDEWALKS APPROVED

Broadway	50 feet East and 200 feet West of Powell Street
Kearny Street	Clay Street to Washington Street
Ingalls Street	Thomas Avenue to Yosemite Avenue
Sixth Avenue	Locksley Avenue to Kirkham Street
Emery Lane	Vallejo Street to 137.5 feet Northerly
Peralta Avenue	Holladay Avenue to Tompkins Avenue

CHANGES IN OFFICIAL GRADES APPROVED

Barneveld Avenue	Oakdale Avenue to McKinnon Avenue
Loomis Street	Oakdale Avenue to McKinnon Avenue
Sixteenth Street	Third Street to Seventh Street
Jackson Street	Battery Street to Front Street
Washington Street	Battery Street to Front Street
Thirtieth Street	Chenery Street to Church Street

CHANGES IN STREET NAMES APPROVED

Great Highway Changed from Forty-eighth Avenue - Taraval Street to Southerly termination

Warren Drive Changed from Lawton Street - Seventh Avenue to Locksley Avenue

John Muir Drive Changed from Lake Merced Blvd. - Skyline Blvd. to County Line

Zoo Road Changed from Lake Merced Blvd. - Sloat Blvd. to a Park Road

DIVISION OF SURVEYS AND MAPPING

TABLE I-B

FIELD SURVEYS

NUMBER OF SURVEYS

A total of 221 field surveys, undertaken and completed by the six survey parties of the Division's Field Engineering Section, comprised the following:

Public Improvement Surveys for:	
Public Assessments and Private Contracts	45 Surveys
Contracts Financed by City	164 Surveys
Site and Lot Location and Topographic Surveys for:	
Bureau of Architecture	5 Surveys
Recreation and Park Department	5 Surveys
Board of Education	None
Real Estate Department	None
Redevelopment Agency	1 Survey
City Attorney	1 Survey

Survey fees received by the City for Public Assessment and Private Contracts totaled $7,890.

EXTENT OF SURVEYS

The aggregate length of field surveys completed totaled 41.73 miles, in addition to which 16.80 acres of topographic surveys were completed. The aggregate length, which was the sum of the various construction project lengths except where not applicable, comprised the following:

Cross sections for street, structure, sewer and drainage design	4.75 Miles
Line and grade for construction of:	
Sewer and drainage systems	2.99 Miles
Street grading	0.64 miles
Pavements and curbs	1.49 Miles

Line, grade and cross sections for reconstruction of existing:	
Pavements	1.63 Miles
Pavements including track removal	None
Curbs and gutters	0.70 Miles
Subsidence Areas	2.23 Miles
Slide Areas	1.11 Miles
Block, Site and Lot:	
Surveys (boundary lengths)	0.49 Miles
Resurveys (frontage lengths)	None
Reference marks (frontage lengths)	0.26 Miles
Monument lines checked	9.35 Miles
Grade studies	0.37 Miles
Miscellaneous surveys (not included above)	7.87 Miles
Post-construction examination of:	
Street grading	2.59 Miles
Sewer and drainage systems	2.51 Miles
Pavement and curbs	2.76 Miles

MONUMENTS

In addition to the aforementioned checking of existing monument lines, 107 survey monuments were reset and referenced and 12 monuments examined for repair and, if necessary, repaired.

PRECISE LEVEL SURVEYS

Precise level bench marks established, and elevations redetermined on existing bench marks, totaled 781 requiring the running of approximately 54.37 miles of precise levels in addition to the aforementioned survey mileage.

TABLE I-C

MISCELLANEOUS SURVEYS AND STUDIES

SURVEY PLATS PREPARED

Shelter Area Routes - City Hall
Palace of Fine Arts - Topographic Survey - Rehabilitation and Conversion
San Francisco Hospital - Topographic Survey - Pathology Building, Vermont and Twenty-second Streets
Golden Gate Park - De Young Museum Addition - Topography
Abraham Lincoln High School - Running Track Layout
Hamilton Annex Playground - Boundary and Topographic Survey

OTHER MISCELLANEOUS STUDIES

More than sixty (60) miscellaneous drawings were prepared in connection with property acquisition and disposition, street openings, widenings and vacations, and easements, acquisitions and abandonments.

Sixteen (16) reports regarding City interest in actions to quiet title were made to the City Attorney's office.

One hundred forty (140) descriptions for deeds to and from the City, involving the Department of Public Works, were checked.

Five (5) appeals from decisions of the City Planning Commission were checked to determine whether the signatures thereon represented at least twenty percent of the property owners within a radius of 300 feet of the property involved so as to qualify the appeals for consideration by the Board of Supervisors.

DIVISION OF STREETS AND HIGHWAYS

TABLE II-A

STREET IMPROVEMENTS

STREET IMPROVEMENT ASSESSMENTS

Assessments and bonds for street work performed under Article 6, Chapter X, Part II, of the Public Works Code

Assessments issued for cost of street work	22
Cost of street improvements covered by assessments issued	$281,982.96
Receipts for bond payments issued	98
Amount of bond payments collected	$ 11,646.26

STREET IMPROVEMENT PROCEEDINGS

Proceedings instituted under the Street Improvement Ordinance of 1934

Resolutions of Intention passed	16
Street Improvement Projects recommended to the Board of Supervisors	14
Notices of Street Improvement posted	183
Notices of Resolution of Intention mailed	165
Ordinances ordering performance of street improvements passed	15
Proposals for street improvements published	15
Awards of Contract for street improvements	14
Notices of Recordation posted	159
Notices of Recordation mailed	323
Private contracts granted	18
Estimated cost of Private Contracts granted	$ 91,525

TABLE II-B

PERMITS AND INSPECTIONS OF STREETS AND SIDEWALKS

JULY 1, 1961 TO JUNE 30, 1962

	TOTALS
Number of Sidewalk frontages inspected	25,859
Curb lowering permits and inspections	1,775
Ownership addresses researched	1,726
Notices to construct or repair sidewalks	698
Notices to remove obstructions, oil, etc.	737
Notices to replace side sewer covers	950
Street Space permits and inspections	2,908
Sidewalk tank excavation permits and inspections	214
House moving permits and inspections	81
Defects in pavements reported (written)	1,232
Damaged signs reported	244
Excavation permits approved	18,893
Excavation repaving inspected	3,990
Posting Notices of Improvements	217
Claims investigations and inspections	485
Special investigations and permits (Blasting, etc.)	4,807
Correspondence answered	265
Personal and telephone calls of complaints or for information	11,912
Citations	13
Preliminary Notices to repair A.S.W. (White)	7,603
Preliminary Notices to repair A.S.W. (Pink)	1,084
Preliminary Notices to repair A.S.W. (Yellow)	3,793
Building Permits - Plans, Driveways	1,647
Public Relations Letters	240
Dump Inspections	890
Court Time - Briefing, Depositions, Court	216 Hrs. (6 mo.)

DIVISION OF TRAFFIC ENGINEERING

TABLE III-A

TRAFFIC LEGISLATION

	Completed 1961-1962	Deleted 1961-1962	Number in Place 6-30-62
Stop Intersections	32	4	1646
Yield Intersections	2	2	----
Through Streets	1.3	0	94.8
One-Way Streets	0.7	1.2	74.0
Speed Zones (other than 25)	4.9	0	54.1
Turn Restrictions (24 hours)	14	2	
Turn Restrictions (Peak Hours)	3	2	
Meter: Block Faces	2	0	1666
Towaway: Block Faces	26	4	678*
Time Limit: Block Faces	18	0	
Angle Parking: Block Faces	7	0	
Other Turn Controls	11	0	
No Parking Any Time: Block Faces	21		
Items discussed at ISCOTT**	675		
Items having Department Public Hearing	62		
Items to Board of Supervisors for Action	93		

* Includes 99 Block Faces of Tow-a-way for Candlestick

** Interdepartmental Staff Committee on Traffic and Transportation

TABLE III-B

TRAFFIC AND STREET NAME SIGNS

TRAFFIC SIGNS			Completed 1961-1962
Parking Signs Installed			158
Parking Signs Repaired or Changed			322
Parking Signs Removed			109
Other Signs Installed			391
Other Signs Repaired or Changed			527
Other Signs Removed			92
Stop Signs Installed			5
Stop Signs Repaired or Changed			284
Stop Signs Removed			53
		Total	1,941
Approximate Cost 1961-1962	$	40,000 estimated	
Total Number in Place June 30, 1962		28,448 estimated	
STREET NAME SIGNS			
Street Signs Repaired or Changed			964
Street Signs Installed			87
		Total	1,051
Approximate Cost	$	21,500 estimated	
Total Number in Place June 30, 1961		7,000 estimated	

TABLE III-C

PARKING METERS

	Completed 1961-1962
New or Amended Zones	1
New Installations	45
Removals	210 (1)
Installations	322 (1)
Relocations	73 (2)
Temporary Removals	260 (2)

Approximate Cost 1961-1962	$ 8,600
Total Number in Place June 30, 1962	12,102

The above table does not include the normal maintenance of parking meters performed by the Department of Electricity.

(1) Removals and installations due to the constant change of drop curbs and colored curb spaces in metered areas.

(2) Due to large building program of private and City interests.

TABLE III-D

PAVEMENT PAINTING

	COMPLETED	APPROXIMATE COST 1961-1962
Standard Striping, miles	580	$ 52,200
12-inch Stripes, miles	174	117,290
Pavement Words (Units) (Cost included in other items)	9,102	
Bus Zones (Units)	1,985	10,645
Parking Stalls (Units - all types)	8,384	6,455
Total Cost		$ 186,590
New School Intersections	7	
Total School Intersections in Place June 30, 1962		846
Pounds of Reflective Beads Used		36,818

TABLE III-E

TRAFFIC SIGNALS AND CHANNELIZATION

	Completed 1961-1962	Number in Place 6-30-62
SIGNALIZED INTERSECTIONS		
Wiley Type Signals Replaced	0	1
3-Light Installations	*9	693
Total Signals		694
Equipped with Pedestrian Signals	11	184
Actuated Signals Added	4	173
CHANNELIZED INTERSECTIONS		
Concrete Islands	4	221
Raised Pavement Bars	2	35
Total Signals	6	256
DIVIDED ROADWAYS		
Concrete Center Islands, Miles	1.25	54.25

* Signals were installed at 16 locations and removed at 7 locations.

TABLE III-F

SERVICES TO PUBLIC AND OTHER DEPARTMENTS

	No. of Investigations Made
Written reports to San Francisco Parking Authority	20
Advisory appearances and conferences with San Francisco Parking Authority	50 (Est.)
One-for-one parking checks for Department of City Planning (formal)	18 (436 stalls)
(informal)	100 (Est.) (1,000 stalls)
Formal STOP and YIELD sign investigations	85
Formal parking control investigations (meters, time limit, NO PARKING, ANGLE PARKING, etc.)	68
Other formal investigations	41

PERSONNEL AT BEGINNING AND END OF FISCAL YEAR:

DIVISION	July 1, 1961	June 30, 1962	Change
Administration	6	5	-1
Streets and Highways	33	33	
Recreation and Park Engineering	15	12	-3
Design	95	98	+3
Surveys and Mapping	35	30	-5
Construction	27	17	-10
Traffic Engineering	28	28	
Office Management	15	15	
Total	254	238	-16

(1) Employees in Professional Classification	106
" " Sub-professional "	104
" " Clerical "	28
	238

RETIREMENTS

During the past year the following employees were retired and recognition is given to their faithful service in the organization:

Konstantin Floroff	11-1-61	Sr. Civil Draftsman	19 years
Arthur J. Furderer	5-1-62	Associate Civil Engineer	32 years

PAYROLL:

The following tabulation shows the number of employees and total payroll charged to General, Project and Road Funds:

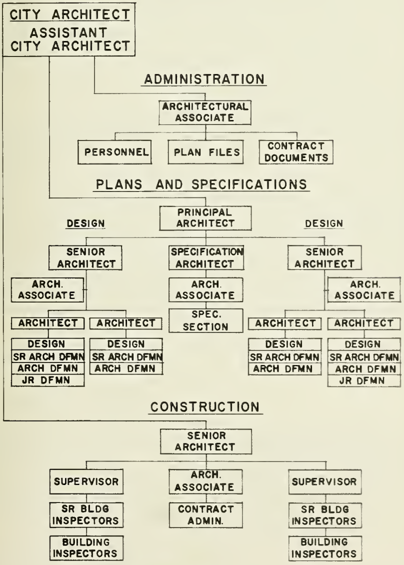
SOURCE OF PAYROLL FUNDS

	EMPLOYEES 1961-62	PAYROLL 1961-62
General Fund Budget Payroll	67	$ 580,341.54
Project Funds - (Gas tax, bond, general, etc.)	143	1,204,583.66
Road Fund Traffic Engineering	28	206,248.19
TOTAL	238	$1,991,173.39

BUREAU OF ARCHITECTURE DEPARTMENT OF PUBLIC WORKS

ORGANIZATION CHART

JUNE 30, 1962



PERSONNEL 62

BUREAU OF ARCHITECTURE

CHAS. W. GRIFFITH, CITY ARCHITECT

FUNCTIONS

The Bureau of Architecture is charged with the responsibility for the design and construction of new City buildings, and the modernization, remodeling, and such maintenance projects on existing City buildings as may require plans and specifications or which may exceed $2,000 in cost. The activities of the Bureau are divided into two separate but related general functions: (1) the preparation of drawings, specifications, and estimates; and (2) the supervision of construction.

Once the need for a building project is established, the Bureau assists the Department which will occupy the structure in the preparation of a basic program. This program consists of general information relative to the functions to be performed in the building, the number and type of employes who will be housed in the building, the public to be served and related data. The Bureau then prepares preliminary drawings, specifications, and estimates of costs, and when funds are available, the working drawings, specifications, and final estimates. The bid forms are then prepared, and the project advertised. After bids are received they are carefully analyzed and recommendations are prepared concerning award of contract. After award of contract, Bureau personnel inspect the work under progress, certifying its completion in conformance with the contract, together with progress and final contract payments.

The amount of work in the Bureau as of July 1, 1962 was as follows:

	No. of Jobs	Amount
1. Preliminary Design Stage	41	$ 9,302,000.00
2. Final Drawing Stage	63	12,591,560.00
3. Under construction	86	20,176,000.00
4. Contracts completed (1960-61)	122	23,506,000.00
TOTAL	312	65,575,560.00

In addition, preliminary data has been prepared for seven bond issues in the total amount of $45,500,000.

ORGANIZATION

The Organization Chart indicates in very brief manner the breakdown of divisions which have been found to be efficient in processing the Bureau's work. The City Architect is the Bureau Head and is assisted in discharging his responsibilities by the Assistant City Architect. The organization of the Bureau is broken down into three separate divisions: Administration, Plans and Specifications, and Construction. The responsibilities of these divisions are further defined as follows:

ADMINISTRATION DIVISION

Section I - Personnel

This section is responsible for fiscal arrangements and work orders for both architectural and related engineering services.

Section II - Plan Files

This section is responsible for requisitions and procurement of blueprints, assembly of blueprints, specifications and bid forms, the filing of tracings, blueprints and specications, and related work.

Section III - Contract Documents

This section is responsible for the assembly, checking, and issuance of the contract documents to contractors who prepare bids for the various jobs.

PLANS AND SPECIFICATIONS DIVISION

The responsibility for processing the various jobs from initial inception to completion of the final drawings, specifications and estimates is divided into four sections. Each of these sections is headed by an architect who not only maintains formal and informal relationships with the client agency but also supervises the personnel assigned to him for the preparation of the drawings and specifications.

CONSTRUCTION DIVISION

This Division supervises and inspects all work under construction. The responsibilities of the Construction Division include progress and validity of the contract work, contract payments, and certification of completion of the contract. The number of contracts under construction is 86 and the amount is $20,176,000.

The Construction Division is headed by a senior architect, and there are two supervising construction supervisors who supervise the building inspectors who are assigned directly to the construction jobs.

A secondary responsibility of the Construction Division is concerned with jobs completed throughout the previous fiscal year. The amount of work which will be done on the completed jobs is indeterminate, but in certain cases will be considerable. A thorough inspection must be made at the end of the year bonded guarantee period one year after the acceptance of the job, and any defect found which is the result of faulty materials or workmanship must be corrected by the contractor. A situation often develops in which much correspondence and many conferences are involved when such defective work is discovered, and considerable time is always required to effect a proper disposition of such cases.

BOND ISSUES

The greatest amount of the Bureau's work consists of design and construction of buildings for which bonds have been voted. The bond issue work being completed at present is as follows:

I. 1954 Laguna Honda Home Bond Issue $ 5,475,000

The extensive reconditioning and deferred maintenance work of this bond issue is now completed. In total, there were twenty-one projects which included some work in all of the usable buildings of Laguna Honda, and the cost was $7,700,000. Approximately $300,000 was used for the purchase of new equipment and the total improvements to the institution was therefore $8,000,000.

II. 1954 San Francisco Hospital Bond Issue $ 5,830,000

The extensive reconditioning and deferred maintenance work of this bond issue is now completed, the total number of jobs being 43, and the total amount of construction and new equipment being $7,150,000. However, the last two major projects, Modernization of Ward Buildings 20 and 30 were deleted, and the money therefor in the amount of $850,000, appropriated for a non-bond job, the new Pathological Building.

The projects completed and the new equipment purchased have improved conditions at the Hospital materially, but some of the work cannot be done because of lack of funds. However, these projects are not being processed because Public Health is exploring the possibility of erecting a complete new Medical Center which would include the three major institutions, San Francisco General Hospital, Laguna Honda Home, and Hassler Health Home.

An amount of $125,000 was provided in the 1962-63 budget for this study, and the Bureau of Architecture will assist Public Health in this work in all ways possible.

III. 1956 School Bond Issue $ 27,000,000

All projects of this bond issue were either under construction or completed on June 30, 1962, and the status was as follows:

A. Construction Completed (42%)

	Proj.No.	Name	Amount
1.	135	Starr King School	$ 285,200.00
2.	105	John O'Connell H.S.	266,046.00
3.	119	Balboa H.S.	26,400.00
4.	121	H. Mann Jr. H.S.	88,712.00
5.	125	Silver Ave. Jr. H.S.	1,035,542.00
6.	124	G. Washington H.S.	107,612.00
7.	150	Polytechnic H.S. (Alterations)	35,374.00
8.	150	Polytechnic H.S. (Kitchen)	96,557.00
9.	150	Balboa H.S. (Athletic Field)	109,670.00
10.	130	Clarendon School (Grading)	4,380.00
11.	150	H. Mann Jr. H.S. (Alterations)	73,510.00
12.	150	H. Mann Jr. H.S. (Library)	46,697.00
13.	150	Roosevelt Jr. H.S. (Playyard)	50,478.00
14.	113	S.E. High School (Grading)	84,444.00
15.	123	Portola Jr. H.S.	463,500.00
16.	132	Longfellow School	844,000.00
17.	120	Francisco Jr. H.S.	578,000.00
18.	101	City College	2,245,600.00
19.	119	Lincoln H.S. (Athletic Field)	327,200.00
20.	122	Denman Jr. H.S.	455,183.00
21.	130	Clarendon School	848,849.00
22.	132	J. Ortega School	608,690.00
23.	120	Francisco Jr. H.S. (Yard)	50,000.00
24.	(None)	Fire Department Requirements	2,300,000.00
25.	(None)	Various Alterations	300,000.00
		Subtotal	$11,331,644.00

B. Under Construction (41%)

	Proj. No.	Name		Amount
26.	114	Southwest (Lowell) High School		4,151,150.00
27.	113	Southeast (Wilson) High School		4,324,000.00
28.	131	Golden Gate School		575,000.00
29.	(None)	Reconstruction and Alterations		2,000,000.00
			Subtotal	$11,050,150.00
	C.	Equipment (4%)		$ 1,500,000.00
	D.	Miscellaneous Costs and Contingencies		3,118,206.00
			TOTAL	$27,000,000.00

From the above report it is obvious that excellent progress has been made on this bond issue and that all bond jobs will be completed within the money available. Actually, savings were made in bond projects during the past three fiscal years since several projects were awarded for sums less than the estimated construction costs.

In addition to the bond projects, the Jefferson School, destroyed by fire, was in construction stage at an estimated cost of $707,750. This school is scheduled for completion and occupancy in February 1963 and is being financed from District funds and the fire loss insurance settlement. Another project, also to be financed from District funds, is the remodeling of the Administration Building, estimated to cost $1,200,000, for which a preliminary estimate has been prepared.

LOWELL HIGH SCHOOL ENTRANCE COURT (during construction)

S. E. HIGH SCHOOL — PERSPECTIVE RENDERING

JEFFERSON SCHOOL
19TH AVENUE AND IRVING STREET
(During Construction)

IV. 1956 Hall of Justice Bond Issue $19,475,000.00

The entire project is now completed and occupied, and the balance remaining in the bond funds, which is not allocated, is $680,000. The work was done under six prime construction contracts, as follows:

A. Construction (80%)		
1. Foundation		$ 931,967.00
2. General Construction		13,980,381.00
3. Elevators		486,091.00
4. Landscaping		30,780.00
5. Service Station		164,119.00
6. Parking Lot		100,000.00
	Subtotal	$15,693,338.00
B. Equipment (4%)		764,000.00
C. Miscellaneous costs and Contingencies (12%)		2,337,662.00
D. Unallocated (4%)		680,000.00
	Total	$19,475,000.00

The initial occupancy of the building was in July 1961 by the Southern Police Station; other Departments occupied in September 1961, and the final acceptance and complete occupancy was in January 1962.

General Description of Building

Seven-story and ground floor concrete structure with marble facing, and with an adjacent one-story and roof deck parking structure, bounded by Seventh, Harriet, Bryant, and Harrison Streets.

Total Gross Sq.Ft. Area	571,145 sq.ft.
Parking (2 decks)	131,452 sq.ft.
Total Cubage	9,650,000 cu.ft.
Public Parking	131,000 sq.ft.

The building will provide space for the following City and County of San Francisco Departments and related facilities:

Roof	Helioport, Microwave Tower
Seventh Floor	County Jail
Sixth Floor	City Jail
Fifth Floor	Police Department
Fourth Floor	Police Department
Third Floor	Superior Criminal Courts, District Attorney, and allied Departments
Second Floor	Municipal Criminal Courts, Adult Probation, and allied Departments
First Floor	Municipal Traffic Courts, Traffic Fines Bureau, Police Traffic Bureau, Coroner's Department in adjacent one-story wing.
Ground Floor	Police Department Locker Rooms, Property Storage, Maintenance Areas, Boiler Room, Cafeteria, etc.

HALL OF JUSTICE
BRYANT ST. ENTRANCE

HALL OF JUSTICE
ENTRANCE FROM
PARKING AREA

Occupancy of Building

Occupancy of the new Hall of Justice is now completed as follows:

Occupants of Building	Cost (%)	Area (%)	Sq.Ft. Area
Police Department - City Prison	58.00	63.60	443,397
Criminal Courts (4 Municipal)	9.20	5.20	38,000
Criminal Courts (4 Superior)	6.50	5.30	38,500
Criminal Courts (3 Traffic)	6.70	7.30	54,000
District Attorney	4.10	4.30	30,500
Adult Probation	3.70	3.80	22,000
Public Defender	.85	.90	6,200

Occupants of Building	Cost (%)	Area (%)	Sq.Ft. Area
County Clerk (Criminal Division)	.45	.50	5,500
Coroner	2.80	2.60	18,500
Sheriff's Detention Jails	7.70	6.50	46,000
Totals	100.00	100.00	702,597

V. 1958 Steinhart Aquarium Bond Issue $ 1,575,000.00

The work of this bond issue was divided into two parts, a new salt water pipeline from the beach to the Aquarium, and the rehabilitation of the Aquarium. Bids were received on the rehabilitation work on May 4, 1960 and reappropriation of funds was found to be necessary prior to award of contract. The final financial breakdown of the bond issue funds is as follows:

A. New Salt Water Pipeline

1. Construction	$ 135,000.00	
2. Engineering	20,500.00	
3. Consulting Engineer	9,200.00	
4. Inspection	6,000.00	
5. Unallocated	1,100.00	
Subtotal		$ 171,800.00

B. Rehabilitation of Aquarium

1. Construction	$1,227,711.00	
2. Inspection	12,900.00	
3. Preliminary Expenses	19,245.07	
4. Architects Fee	104,495.00	
5. Contingent Fund	33,669.22	
6. Miscellaneous Costs	5,000.00	
7. Unallocated	179.71	
Subtotal		$1,403,200.00
Total		$1,575,000.00

It should be noted that some of the work originally intended to be completed in the bond issue will not now be a part of the work. The items omitted are not as urgent as the included work, but will probably have to be budgeted during the next few years.

The complete time schedule for the rehabilitation of the Aquarium is as follows:

1. Bonds voted	June 3, 1958
2. Funds appropriated	October 22, 1958
3. Architects appointed	January 15, 1959
4. Plans and specifications completed	February 15, 1960
5. Bids received	May 4, 1960
6. Reappropriation approved	August 26, 1960
7. Rehabilitation work to start	October 3, 1960
8. Phase I completion (11 months)	April 1, 1962
9. Phase II completion (7 months)	January 1, 1963

VI. 1959 Civic Auditorium Bond Issue $7,575,000.00

> The Bond issue was approved by the Finance Committee of the Board of Supervisors in June 1959, and upon the recommendation of the Mayor's Bond Screening Committee the amount was reduced by $200,000 which had been previously approved for restorative work at the Auditorium in the 1959-1960 Budget. The amount of this bond issue, approved on the November 3, 1959 ballot, is therefore $7,575,000.

The Civic Auditorium, which is San Francisco's principal convention facility, is obsolescent. Built in 1914, it has not been modernized, and maintenance has not been adequate. While other cities such as Detroit, Los Angeles, Miami, Portland and Las Vegas have completed or are building new convention buildings, San Francisco does not have the space to do likewise. It is also impractical since the location of a new convention hall would have to be in the same location as the Civic Auditorium, and the wrecking of the existing building and the building of a new structure would take at least two years, during which time the convention business, for all practical purposes, would be lost. It is therefore essential that the Civic Auditorium which is basically sound both in plan and construction, be completely rehabilitated and modernized so that it can successfully compete with new buildings in other cities.

The "Survey of Convention Facilities Needs in San Francisco" prepared by the Industrial Planning Associates, established requirements which must be met in the modernization and rehabilitation work as a part of an organized program to increase San Francisco's share of the convention business from $30,000,000 in 1957 to $72,000,000 in 1980. These requirements are as follows:

1. Rehabilitation of the Main Arena, Polk and Larkin Halls, to serve in the dual capacity of large meeting rooms and exhibit space.
2. Provide 60 small meeting rooms, seating from 40 to 250.
3. Improve the vertical transportation.
4. Replace the obsolete electrical, plumbing, and mechanical systems, provide modern heating, lighting, plumbing and air conditioning systems.

The Bureau's report, revised April 15, 1959, describes in detail the work which will be done to achieve these ends. An estimate of cost and an interruptible construction schedule which will provide for completion of the work during periods of non-use of the Auditorium between scheduled conventions and special events. The total estimated cost of this bond issue was $7,575,000. The basic requirements and provisions made to provide for them are listed below:

1. The restoration of the Main Arena and Polk and Larkin Halls to serve as both large theatre-type meeting rooms and as exhibit space. While at present these rooms do serve in this dual capacity, their finishes are shabby and obsolete. The ceiling of the original arena is worn out and has been removed, and awning type ceiling installed as a temporary expedient. The acoustics in these three big meeting rooms are poor. The estimate provides for all of the above corrective work plus new seats for Polk and Larkin Halls.
2. Sixty meeting rooms seating from 40 to 250, a total of approximately 5,000. The Auditorium now has 16 meeting rooms, seating from 30 to 150. The estimate provides 64 meeting rooms seating a total of about 5,200.
3. The improvement of vertical transportation throughout the building. The Auditorium now has satisfactory stairs but only two obsolete passenger elevators. The consultants made a thorough study of this requirement and found that the best solution was escalators connecting every floor of the building, first through fourth, one new elevator, and renewing the other elevators.

4. General renovation of the building.
   The mechanical system is obsolete and the electrical system is illegal, overloaded, and dangerous. The estimate includes a modern mechanical system, with proper heating, ventilating and air conditioning, and a modern electrical and lighting system. It also includes the renovation of all corridors, miscellaneous rooms, toilets, and the basement. By far the greatest single expense is the new mechanical system which amounts to about one-third of the entire work.

The appropriations which were approved by the Board of Supervisors on January 30, 1960 were as follows:

1. Construction	$6,700,000.00
2. Architect-Engineer fee	528,000.00
3. Department of Public Works costs	227,000.00
4. Equipment	120,000.00
Total	$7,575,000.00

The time schedule for the work was established as follows:

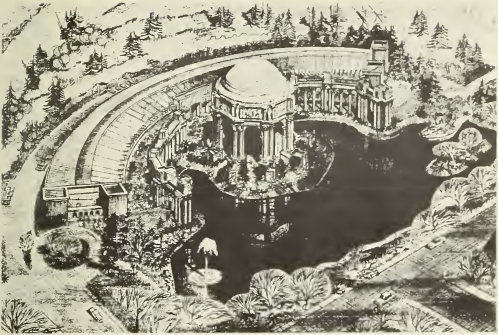
1. Architect-Engineer contract certified	March 7, 1960
2. Advertise for bids	April 12, 1962
3. Bids received	April 25, 1962
4. Contract awarded ($6,623,000)	May 2, 1962
5. Contract certified	June 18, 1962
6. Construction to be completed	January 10, 1965

VII. 1959 Palace of Fine Arts Bond issue $ 1,800,000.00

This bond issue was approved by the election of November 3, 1959. It will be used in conjunction with $2,000,000 provided by the State and $2,000,000 provided from private sources.

The exterior of the building, colonnade, and rotunda will be restored to its original form as nearly as possible, using permanent materials. The bond issue funds, $1,800,000, were intended to be used for conversion of the interior of the large curved hall comprising approximately 110,000 square feet, to house the following:

1. Administrative Offices
2. Studios
3. Theatre including stage
4. Restaurant and kitchen
5. Exhibit space
6. Music Hall and Stage



PALACE OF FINE ARTS
Partial Restoration

The estimate was prepared by, and the bonds voted to, the Recreation and Park Commission. Subsequently the Commission requested that the work be undertaken by the Department of Public Works, and the transfer was effected in June 1960.

The funds available for the project are

(a) From State	$ 2,000,000.00	
(b) From private sources	2,000,000.00	
(c) 1959 Bond Issue	1,800,000.00	
Subtotal		$ 5,800,000.00
(d) State costs		50,000.00
(e) Total available		$ 5,750,000.00

The estimated cost of the work, based on the preliminary drawings is as follows:

1. Rehabilitation			
	(a) Rotunda	$ 3,552,980.00	
	(b) Colonnade	2,784,800.00	
	(c) Main Building	3,304,000.00	
	(d) Site work	328,040.00	
	Subtotal		$ 9,969,820.00
2. Conversion			2,846,160.00
	Total		$12,815,980.00
3. Available			5,800,000.00
	Deficit		$ 7,015,980.00

Since the estimated cost of the proposed improvements exceeded the funds available, the Board of Supervisors by Resolution 62-62 adopted the "Cahill Plan". Essentially the Cahill Plan is a limited scope of work and an estimate based on integral concrete finish in lieu of applied precast finish. Resolution 62-62 also instructs the Director of Public Works to proceed with plans and specifications for all of the exterior restorative work, providing alternate proposals so that the Supervisors may make their final decision concerning the job after receipt of bids. State approval has also been obtained based on the above described conditions.

The preparation of the final drawings started June 29, 1962 and will require 10 months for completion. They will therefore be completed April 29, 1963. It will take about 4 to 6 months to get State and Board of Supervisors approval to proceed, so it appears that the actual work will begin on or about December 1963. The total work of the base bid, "Cahill Plan", is estimated to cost $6,035,000 of which $235,000 will be secured from interest on the invested funds. The total work being designed is $8,141,000, approximately $2,100,000 more than funds provided, which work cannot be done unless additional money is made available.

VIII. De Young Museum Bond Issue $2,725,000.00

This bond issue was approved by the electorate in June 1960. It was a Recreation and Park bond issue and the estimate was prepared by a private architect. The purpose of the bond issue is to provide a new west wing for the Museum in which an Oriental Art collection will be housed. This art collection is being presented to the City by Mr. Avery Brundage contingent upon the City's providing a suitable building for its storage and display.

The estimate which formed the basis for this bond issue is as follows:

1960 Recreation and Park Bond Issue

a. Construction estimate 1962 prices		$ 2,288,832.00
b. Architects and Engineers fee		160,218.00
c. Exhibit cases	$240,000.00	
Architectural fee	16,800.00	256,800.00
d. Soil borings		4,500.00
e. Full time inspection		10,000.00
f. Office furniture		4,650.00
Total		$ 2,725,000.00

Note: Relocation of present exhibits and remodeling of space on east side estimated at $182,000 was not included in above estimates.

The estimate shown above was not a Bureau of Architecture estimate and the design work is not being handled by this Bureau. On June 15, 1960, however, the Board of Trustees requested the Director to take over the job when plans and specifications are completed, and complete the construction. It is therefore expected that the Bureau of Architecture will be assigned this job upon completion of the drawings, possibly in the fall of 1962, and that we will proceed with the construction of this facility.

PROPOSED BOND ISSUES

1. Public Welfare Building $ 3,545,000

At the request of the Director of Public Welfare the Bureau prepared an estimate for a new public welfare building during the past fiscal year. This new building of 100,000 sq.ft. area, is intended to house all of the scattered facilities and personnel of the Department. The bond issue was not approved, however, in the elections of November 1961 and June 1962 although it may be presented to the electorate at a later date.

The estimate is as follows:

1. Construction		$ 2,270,000
2. Plans and specifications		203,000
3. Inflation		300,000
4. Equipment		170,000
5. Property		602,000
	Total	$ 3,545,000

II. District Health Centers $ 3,416,000

At the request of the Director of Public Health an estimate was prepared for five new district health centers as follows:

District No. 1 Pond, Prosper and 17th Streets		$ 664,800.00
District No. 2 Vicinity of Scott and Ellis Streets		667,400.00
District No. 3 4th and Clara Streets		948,000.00
District No. 4 21st St. and Potrero Ave. (S.F. General Hospital)		595,500.00
District No. 5 Quintara St. and 29th Ave.		536,900.00
	Total	$3,412,600.00

However, this bond issue was not approved by the Board and has not yet been placed on the ballot.

III. Civil Courts Building and Remodeling of City Hall $22,150,000

During the spring of 1957 the Bureau, working in close cooperation with the architects for the Civic Center Development Plan, the advocates of a new Courts building, and the Municipal Conference, prepared estimates for this proposed work. The bond issue is based on the report of the Architects and Engineers for the San Francisco Civic Center Development Plan, dated May 7, 1957. In their survey of existing conditions at the Civic Center, the consultants found that:

> "Facilities which are now provided in the Civic Center have become over-crowded requiring the use of temporary structures and rental properties. In many cases, offices are scattered and no provision for expansion is available. The present permanent spaces have become largely outmoded. It is essential that additional space be provided and that existing space be rehabilitated to provide efficient up-to-date accommodations that are suitable for the functions to be housed in them."

olution to the space problems the consultants recommended:

1. The construction of a new Civil Courts Building on Marshall Square to house the Municipal and Superior Courts, and all their attendant facilities, at an estimated cost of $16,207,254.

2. The remodeling of the City Hall to provide office space for the Mayor, Chief Administrative Officer, Board of Supervisors, and the majority of the City and County Departments at an estimated cost of $7,918,462.

3. The future construction of an Annex Office Building across McAllister Street from City Hall, in the block bounded by McAllister, Van Ness, Polk, and Redwood Streets. This building would be needed in the future but since it was not urgently required at present its construction should be deferred until a later date.

The total amount of the bond issues recommended by the consultants is as follows:

1. New Civil Courts Building	$16,207,254
2. Remodeling of City Hall	7,918,462
Total	$24,125,716

This amount was later modified in conference with interested citizens and public officials by the reduction of facilities and space as follows:

1.	New Civil Courts Building	$ 14,379,450.00
2.	Remodeling of City Hall	7,770,550.00
	Total	$ 22,150,000.00

The bond issue was approved by the Mayor's Bond Screening Committee June 3, 1957, the Finance Committee on June 5, 1957, and by the Board of Supervisors on June 10, 1957. The bond issue was defeated in the November 1958 and 1959 elections by narrow margins. It will probably be revived at a later date after other facilities which are more urgently needed have been provided.

IV.	Public Library	$5,190,155

Data was prepared for this bond issue which included rehabilitation and additions to the Main Library building and nine new branch libraries in time so that it could be presented on the November 1957 ballot. However, it did not receive the support of the Mayor and downtown organization, and was therefore not on this ballot.

The 1962-63 budget provides $8,000 for an integrated Library-Consultant, Architectural study of the Main Library which will very probably result in a recommendation for a bond issue to rehabilitate and expand the library building in the Civic Center.

EUREKA
VALLEY
BRANCH
LIBRARY

V. M.H. de Young Museum

The 1962-63 budget provides $20,000 for a study of the Museum and the development of a master plan. This will probably result in a bond issue for much needed facilities for the Museum.

VI. Public Health Institutions

The 1962-63 budget provides $125,000 for a study of the three main institutions - San Francisco General Hospital, Laguna Honda Home, and Hassler Health Home. This study will probably result in the recommendation of a new medical health center to house all three institutions.

VII. Palace of Legion of Honor

$8,000 is provided in the 1962-63 budget for a study and the preparation of an estimate for a storage facility for the Palace. It is believed that this study may result in a bond issue as it appears of a nature which will cost in excess of that usually approved by the budget.

VIII. Fire Department Headquarters Building $ 1,300,000

$35,000 is provided in the 1962-63 budget for the preparation of preliminary drawings, specifications and estimate for a new Fire Department Headquarters Building which will probably be erected on the north-west corner of Polk and Mc Allister Streets. The building, because of its excessive cost, will probably have to be the result of a bond issue.

PERSONNEL

The total permanent allowance of personnel in the Bureau is 61, but five permanent positions were not filled. Because of the lack of lists and the great amount of school vacation jobs this summer it was necessary to employ 7 temporary employees. The total employees as of June 30, 1962 were 63.

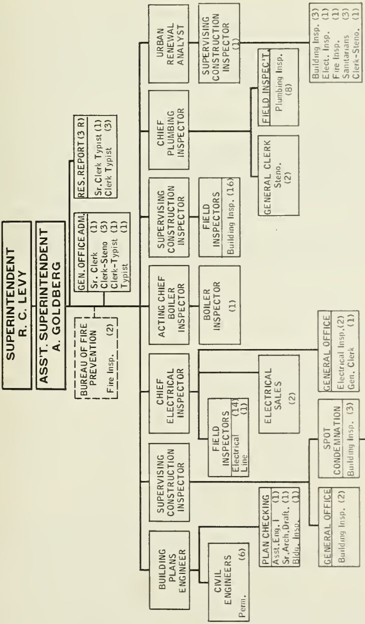
	30 June 1961		30 June 1962		Change	
	Perm.	Temp.	Perm.	Temp.	Perm.	Temp.
City Architect	1	0	1	0	0	0
Asst. City Architect	1	0	1	0	0	0
Architects	9	0	8	0	-1	0
Sr. Arch. Draftsmen	10	0	9	0	-1	0
Arch. Draftsmen	8	0	8	0	0	0
Jr. Draftsmen	1	0	1	0	0	0
Office Assistant	1	0	1	0	0	0
General Clerk	1	0	1	0	0	0
Sr. Clerk	1	0	1	0	0	0
Gen. Clerk Steno.	3	1	4	0	+1	-1
Gen. Clerk Typist	4	0	4	0	0	0
Super. Const. Inspector	2	0	1	0	-1	0
Building Inspector	17	11	16	7	-1	-4
Total	59	12	56	7	-3	-5

Total Personnel 63

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS

ORGANIZATION CHART
BUREAU OF BUILDING INSPECTION

FISCAL YEAR 1961-62



BUREAU OF BUILDING INSPECTION

ROBERT C. LEVY, SUPERINTENDENT

The functions and organization of the Bureau of Building Inspection have been covered in detail in past reports, and the organization is indicated on the organization chart in this report. For details of the Bureau operation the reports of the fiscal year 1958 and 1959 are referenced.

Briefly the function of the Bureau is to insure compliance with the City Building, Housing, Plumbing, and Electrical Codes, the State Housing Act, the State General Safety Orders as well as other State laws. The Bureau accomplishes the function by means of reviews of plans, and the inspection of construction, alteration and installation involving structural, electrical, plumbing, and certain mechanical work throughout the city. In addition it inspects existing buildings and structures to obtain their compliance with the applicable laws. The Bureau also proposes new legislation affecting buildings and structures and analyzes and reports on legislation proposed by other departments and by the State.

During the 1961 fiscal year the Bureau of Building Inspection activities were generally grouped into the following major areas.

A. Bureau Operations
B. Codes
C. National Activities
D. Miscellaneous Activities

The following will expand upon these general areas with regard to specific work and problems:

A. Bureau Operations

1. One of the basic problems faced by the Bureau is that of shortage of both inspection and supervisory personnel particularly in the inspection services. In this regard the Bureau has not been successful in increasing our staff by the employment of additional inspectors required to cope with the increasing volume of work.

With regard supervisory personnel the ratio in both the building and in electrical inspection divisions is greater than 15 inspectors to one supervisor. The supervisor cannot adequately supervise these many persons in addition to the required administrative duties. The ratio of inspectors to supervisory personnel is higher in San Francisco than almost any other large jurisdiction.

It is anticipated that the forthcoming year will represent one of the largest dollar volume years of building construction in the history of the City.

The Bureau has obtained additional personnel for its Plan Checking Division and is now better able to handle the increased volume of work.

2. Urban Renewal. The Urban Renewal Division has completed a large part of its work in the Visitacion Valley area as well as the Pacific Heights. A summary of the inspections and the findings in each of these areas are as follows:

The Urban Renewal Division has been in operation in Conservation Areas for 2-1/2 years. These areas generally have good housing and are good neighborhoods but are showing evidence of deterioration and the purpose of the program is to eliminate this deterioration and prevent the development and spread of blight. All buildings in these areas are inspected and reports made to the owner.

The two designated areas are Pacific Heights and Visitacion Valley and these areas contain 3963 structures with 11,500 dwelling units and 25,000 persons. Following is the summary of our activities in these areas through June 30, 1962:

Area	Date Designated	Total Bldgs.	Buildings Inspected	Violations Detected	Buildings Brought Into Code Compliance
Pacific Heights Conservation Areas					
One	Nov.1959	143	143	136	70
Two	Feb.1960	186	185	167	105
Three	May.1960	357	329	241	85
Four	Oct. 1960	549	295	228	26
Five	Apr. 1961	649	79	67	17
		1884	1031	839	303
Visitacion Valley Conservation Area					
One	Oct. 1960	544	500	229	113
Two	Oct. 1960	784	498	306	77
Three	Oct. 1960	751	40	17	7
		2079	1038	552	197
Total Buildings		3963	2069	1391	500
Total Dwelling Units		11,500	8,449	5,658	2,071

In Pacific Heights the estimated cost of corrective work per dwelling unit has been $140, and this area has an average of 5 dwelling units per building.

In Visitacion Valley the estimated cost of corrective work is $60 per dwelling unit, with an average of 1 dwelling unit per building.

Alteration permits issued during the past four months average $77,000 a month, which is 15 times the average value in these areas for the 5 years preceding designation.

Private construction of new buildings in Pacific Heights since inception of the Conservation Program is valued at $10,051,212 and has added 409 dwelling units to the district.

Cooperation between the property owner and the City has been very good, and all cases of objection and appeal have been resolved without recourse to the courts.

We expect that designation of three additional conservation areas will be made during the next fiscal year. These areas will be in parts of the City not previously under the conservation program.

3. Community Renewal Program. A very important step was taken by authorization of the Board of Supervisors for the City to enter into joint action with the Federal Government in a community renewal study. The Bureau of Building Inspection is vitally concerned with Part 1 of this study which will investigate and recommend solutions for the overlapping inspection problem between the various code enforcing groups, namely Fire Department, Dept. of Public Health, Dept. of City Planning, and the Bureau, with its resultant duplication, waste of effort, and sometimes conflicting orders to property owners and contractors. This first phase of the study is expected to be completed early in 1963 and it is hoped that it will present definitive recommendations for the improvement of City inspection operation. The implementation of such recommendations will probably involve changes in various ordinances and possibly the Charter and certain State legislation as the responsibility for enforcement of the various codes are contained in these codes.

4. Plan Check Fee Revision. The Charter requires that the cost of all inspection service shall be entirely met by the fees received. The fees are reviewed annually and it is necessary this year for the Bureau to recommend a raise in the Plan Checking fees to be charged for building permits. The approximate raise in fees will amount to $30,000 annually. All other services of this Bureau comply with the Charter requirements that they be self-supporting and therefore we are recommending that the present fee schedules remain in effect.

5. Training of Inspection Personnel. Training sessions were held at frequent intervals to assist the inspection personnel in their work. Subjects of the sessions included the new amendments to the Housing Code and technical sessions in materials. In addition the division heads hold technical sessions with their personnel to assure uniformity of code interpretation and provide technical information needed in day-to-day inspection work.

An Urban Renewal Orientation Program of three sessions was held so that inspection personnel would have a working knowledge of urban renewal as carried out by different departments and agencies in San Francisco and by Federal agencies.

Representatives of the other code enforcement departments attended these sessions in order to better coordinate the various programs.

B. Codes

1. San Francisco Housing Code. The recommended amendments to the San Francisco Housing Code were passed by the Board of Supervisors on September 27, 1961. A brief description of the more important of these amendments may be found in the 1961-62 Annual Report. The ordinance allows apartment house and hotel owners until January 1966 to comply with the retroactive requirements stated therein except in the case of a fire hazard, as determined by the Chief of the Fire Department, in which case 6 months compliance can be obtained. Although this measure was bitterly fought by several groups, many groups felt that if safety can be afforded at a reasonable cost, that it would be constructive legislation, and the action by the Board of Supervisors, in passing the legislation concurred in this philosophy.

2. San Francisco Building Code. The first overall revision of the 1956 San Francisco Building Code was sent to the Board of Supervisors in late November 1961. It had the endorsement of all professional groups and many trade organizations as well as the Chamber of Commerce and the Downtown Association.

Hearings were held as described in the 1961 Annual Report and further hearings between the Fire Department and the Director of Public Works eliminated many of their objections. At the close of the fiscal year the Public Buildings and Lands Committee of the Board of Supervisors, after hearing this matter, had recommended to the Board passage of the amendments by unanimous vote, and it is anticipated that the full Board will pass the amendments in early July.

A description of the more important amendments is contained in the 1961 Annual Report.

3. Activities on International Conference of Building Officials Committees. The International Conference of Building Officials, which published the Uniform Building Code, and of which the Bureau is a member, appointed the Superintendent to two committees of that organization to help re-write the masonry and roofing portions of the Uniform Building Code.

The Uniform Building Code is the guide for building regulations promulgated by the various State agencies and is used by all cities of the Bay Area with some minor modifications.

The Bureau of Building Inspection, in preparing code changes to our code, recognizes those changes to the Uniform Building Code which are adopted from year to year and, upon study of these changes proposes similar legislation when appropriate, for the amending of the San Francisco Building Code. In this way the San Francisco Code is brought into agreement with the Uniform Building Code in those requirements where our special needs do not require different code requirements.

It is therefore very helpful to work with the Uniform Building Code group in preparing code so that we may be aware of the intent as well as the content of the code changes, as well as to aid in the improvement of that code.

4. State Acts and Regulations. The State of California regulates, through several administrative codes, various types of buildings and occupancies. The new State Housing Act which was adopted in 1961 contains provisions for the adoption, administratively, of the rules and regulations which could seriously affect San Francisco.

Similarly, proposals to amend Title 19 under which the State Fire Marshal operates and which regulates buildings housing public assembly, schools, and institutions similarly was of concern to San Francisco. Reviews made of these proposed regulations resulted in meetings with State officials and other building officials to effect changes that will protect the rights of local jurisdiction to have their own code provisions and yet retain the level of safety designed by the State.

C. National Activities

1. Fire Council. In April 1962 the Superintendent was elected to the Underwriters' Laboratories Fire Council which reviews and passes on all fire tests and fire protective devices submitted to Underwriters' Laboratories prior to their publishing and labeling service commitments. In this regard the Bureau will be recipient of a

large amount of data and will be in a better position to evaluate assemblies and new materials for use in San Francisco.

2. Steel and Plastics. Recently proposals have been made by the steel industry for the use of a large number of new steels throughout the nation. San Francisco has, together with many other jurisdictions, been very concerned in this matter since the steels possess greatly differing physical characteristics yet visually look the same. Thus there is no means of identifying one type of steel from another at the job site.

This problem has been presented to industry and it is hoped that in the near future the problem can be resolved and San Francisco can then adopt the use of such steel on a general basis.

Plastics, which were first accepted into a major code in San Francisco, present a problem of hazard from both smoke toxicity and spread of fire that has not been fully explored. In the absence of definite data it has been necessary for this Bureau and other building officials to take a most conservative attitude.

As a result of the decisions by the Superintendent and confirmation by the Board of Examiners and due to actions in other jurisdictions regarding plastics, the industry is embarking upon widespread evaluations to determine the degree of hazard present from the burning of plastics and similar materials on the basis of the smoke that is generated from the material.

It is our intention to re-write Article 29 of the Building Code dealing with plastics to correct ambiguities and to require that plastics conform to the level of safety elsewhere required within the code. This amendment of the code is being proposed as part of the 1962 code revisions.

D. Miscellaneous Activities

1. Move to new quarters. In April 1962 the Bureau moved from the City Hall to 450 McAllister Street, the City Hall Annex Building. In this new location larger quarters are available and this Bureau is now better able to serve the public.

The Central Permit Bureau similarly moved and its new location, in close proximity to the main office of the Bureau, will afford an easier accessibility for those that make use of both Bureaus' services.

2. Board of Examiners. The Board of Examiners of the Bureau of Building inspection has been in existence since 1956. This

very important Board hears appeals from denials of the Superintendent for new materials or methods of construction with relation to the Building Code. A great many technical problems dealing with interpretation of the code as well as approval of particular materials and methods have been ruled on by this Board.

The members of the Board constitute a cross-section of the highest caliber of professional services available in the City. Unfortunately there is no similar board established by the Electrical or Plumbing Codes and there is, therefore, no appeal presently set forth for either of their fields from decisions of the Superintendent with regard to new materials or methods of construction.

It is the intention of the Bureau to propose amendments to both Electrical and Plumbing Codes so as to empower the Board of Examiners to act as an appeal body in technical matters regarding these codes. The Board, under this proposal, would be augmented with regard to Plumbing or Electrical matters by replacing the general contractor, who is presently on the 5-man Board, by an electrical or plumbing contractor as the case may be, dependent upon the matter before the Board being an Electrical or Plumbing Code problem.

The right to appeal is a very vital matter and is one that should be afforded to any person from the decisions of a single person.

3. Chief Electrical Inspector retirement. The Electrical Division of the Bureau of Building Inspection for many years was headed by Mr. J. Graham, Chief Electrical Inspector. The division is now headed by Mr. A. McGurik as Acting Chief. Mr. Graham served the City for many years and retired in March 1962

STATISTICAL SUMMARY

BUILDING INSPECTION DIVISION

Type of Construction	1961-62 No. of Permits	Est. Cost
1A	18	$ 14,877,362
1B	8	9,917,080
2	--	- - -
3	27	5,299,574
4	29	1,948,675
5	1,051	53,187,550
Alterations	11,556	30,069,234
Totals	12,689	$ 115,299,475

Type 1A -	Steel frame with reinforced concrete walls and floors. Fire-resistive construction.
Type 1B -	Built entirely of reinforced concrete. Fire-resistive construction.
Type 2 -	Similar to Type 1, but with limitations.
Type 3 -	Wood frame floors with exterior walls of masonry. Ordinary masonry construction.
Type 4 -	Light incombustible frame construction.
Type 5 -	Wood frame construction.

BUREAU STATISTICS FOR FISCAL YEAR	1960-61	1961-62
Inspections reported by building inspectors	59,881	63,817
Projects remaining on which permits have been issued that have not been reported completed by building inspectors	4,712	5,390
Complaints reported that have been adjusted by building inspectors	3,636	3,788
Inspections reported by boiler inspectors	1,871	1,438
Complaints and requests for information recorded	234	200
Applications for permits examined and approved by plan checker·	1,171	1,583
Miles traveled during the year by vehicles on inspection service	321,011	312,408

PLUMBING INSPECTION DIVISION

Plumbing permits issued	4,156	4,272
Sewer repair or replacement permits	146	372
Plumbing installation removals	1	
Water permits issued	855	1,007
Water permits combined with plumbing	3,353	3,246
Gas piping and appliance permits	12,464	15,824
Gas permits on plumbing	6,032	5,345
Gas installation removals	6	7
Plumbing inspections made	14,295	16,286
Water inspections made	3,351	3,816
Water installation removals	6	2

PLUMBING INSPECTION DIVISION (Continued)	1960-61	1961-62
Plumbing complaints investigated	1,037	941
Condemnation reports	29	43
Gas piping complaints investigated	5	3
Gas appliance complaints investigated	214	354
Plumbing installations completed	4,787	5,456
Gas lines inspected final	4,045	4,088
Gas appliances approved	11,654	13,442
Installations uncovered that were without permit and upon which penalties were assessed	18	37

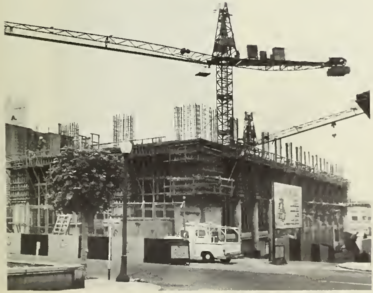
ELECTRICAL INSPECTION DIVISION

Permits issued, wiring and signs	14,257	13,166
Inspections made	47,655	38,616
Complaints Investigated (Found Defective)	3,182	3,311
Installations uncovered that were not with permits	2,586	2,393
Installations in progress as of June 30, 1962	4,444	4,947
Installations completed	15,218	12,712
Pin Ball Machine Inspections	476	462
Juke Box Inspections	96	76
Inspections for Nursing and Boarding Homes for ambulatory patients		198
Night Club Inspections		70
Spray Booth Inspections		58

ELECTRICAL INSPECTION DIVISION (Continued)	1960-61	1961-62
Special Investigations (Fire Dept.)		296
Electrical Sales Inspections	3,285	2,770
Overhead line inspections	4,479	4,472

ROYAL TOWERS

APL - INTERNATIONAL BUILDING



NOB HILL APARTMENTS

1200 CALIFORNIA STREET
23 Story Community Apartments

899 PINE STREET

ORGANIZATIONAL RELATIONSHIPS
MAINTENANCE, REPAIR & OPERATION

DIRECTOR
Reuben H. Owens

Ass't. Director for Maintenance & Operation
S. Myron Tatarian

BUREAU OF STREET REPAIR
F. O. Brown, Superintendent

Functions

1. Maintain and Repair Public Streets.
2. Operate and Maintain 3 Lift Bridges.
3. Operate and Maintain Asphalt Plant.
4. Operate Granite Curb Yard.
5. Operate and Maintain Broadway Tunnel.
6. Operate and Maintain Underpasses and Overcrossings.
7. Maintain and Repair Certain Street Structures.
8. Perform Work for Other Bureaus and Departments by Work Order.

Personnel Allowance	
(a) Budgeted	173
(b) Assigned from Other Bureaus	1
(c) Contract Employee on Hired Truck	1
Total	175

Total Expenditure	
Budgeted by Bureau	$1,833,826

BUREAU OF SEWER REPAIR & SEWAGE TREATMENT
W. B. Jones, Superintendent

Functions

1. Maintain and Repair Sewerage System.
2. Operate and Maintain 15 Sewage Pump Stations.
3. Operate and Maintain 3 Sewage Treatment Plants.
4. Control Industrial Waste Discharge to Sewers.
5. Conduct Air and Water Pollution Surveys.
6. Provide Advisory Service to other City Departments on Sewage Treatment.

Personnel Allowance	
(a) Budgeted	222
(b) Non-Budgeted	20
(c) Assigned from other Bureaus and Departments	11
(d) Contract Employees on Hired Trucks	5
Total	258

Total Expenditure	
Budgeted by Bureau	$2,190,639

BUREAU OF BUILDING REPAIR
A. H. Ekanberg, Superintendent

Functions

1. Maintain and Repair Certain Public Buildings
2. Provide Maintenance and Repair Services and Personnel on an Interdepartmental Basis to other City Agencies.
3. Provide Operating and Custodial Personnel in Certain Public Buildings.
4. Conduct Engineering-Architectural Surveys and Prepare Reports on Certain Public Buildings.
5. Paint Street Traffic Striping and Markings.
6. Repair Certain Street Structures and Sidewalks fronting on City Property.
7. Maintain Street-Name Signs.

Personnel Allowance	
(a) Budgeted by Bureau	347
(b) Assigned from Other Bureaus	2
Total	349

Total Expenditure	
Budgeted by Bureau	$2,718,021
Funds from Other Sources	$ 961,033
	$3,679,054

BUREAU OF STREET CLEANING & PLANTING
B. M. Crotty, Superintendent

Functions

1. Clean Public Street Surfaces.
2. Clean 11 Pedestrian and Vehicular Underground Structures.
3. Clean 195 Pedestrian Stairways.
4. Control Weeds on City Properties.
5. Operate 19th Avenue Street Cleaning Yard.
6. Operate Nursery at the Southeast Sewage Treatment Plant.
7. Maintain 137 Acres of Landscaping and 6830 Street Trees.
8. Coordinate Litter Control and Tree Planting Programs.
9. Provide Technical Assistance on Landscaping and Tree Planting.

Personnel Allowance	
(a) Budgeted by Bureau	362
(b) Assigned from Other Bureaus	3
Total	365

Total Expenditure	
Budgeted by Bureau	$2,765,372

SUMMARY

Total Personnel Allowance 1,147
Total Expenditures, less reimbursements... ... . $10,468,891

MAINTENANCE AND OPERATION

S. MYRON TATARIAN, ASSISTANT DIRECTOR OF PUBLIC WORKS

GENERAL

The maintenance and operation functions of the Department of Public works are administered by the Assistant Director of Public Works, Maintenance and Operation, through four bureaus, namely, Street Repair, Sewer Repair and Sewage Treatment, Building Repair, and street Cleaning and Tree Planting, with a total of 1,147 employees. Each bureau is headed by a Superintendent. The organization, function, and annual report of each bureau is included in this section of this report.

One of the major problems confronting each bureau involved personnel. Many positions have been reclassified as a result of the Job Classification Survey conducted by the J. L. Jacobs Company and filling of new positions has been withheld in many cases pending necessary administrative action by the Civil Service Commission and other offices.

Continuing the program established by the Civil Service Commission during the previous year certain supervisory employees from each bureau attended classes in Advanced Training in Development Evaluation methods.

Regularly scheduled safety meetings were conducted by each bureau. Accident reports were reviewed and recommendations for corrective action were made in each case.

Extensive driver training program was started in February and ended in June, during which period 380 employees from the four bureaus each received four hours of instruction. All employees who are required to drive vehicles in the course of their employment were required to take the course. Instruction was given by three specially selected chauffeurs from within the Maintenance and Operation Bureaus and included a short period of classroom orientation followed by a field driver's test designed to measure reaction time and stopping distance under various driving conditions. The program was well received by all who participated and the time spent on the program was well justified in the results.

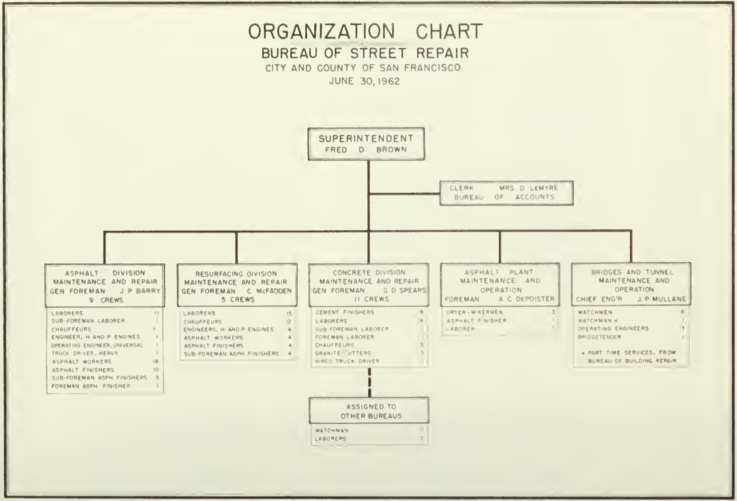
PERSONNEL

Personnel allowances, as budgeted by the four bureaus, totalled 1,124. In addition, 17 employees from other bureaus and 6 contract employees on hired trucks are assigned to the Maintenance and Operation Bureaus.

EXPENDITURES

Expenditures for Maintenance and Operation Bureaus amounted to $9,507,858 from budgeted appropriations and $961,033 from funds received by work order, or a total of $10,468,891. A breakdown of expenditures and per capita costs follows:

	Total Expenditures	Per Capita Cost (Based on a population of 715,609 recorded by Federal Census of 1960)
Street Repair	$ 1,833,826	$ 2.56
Sewer Repair & Sewage Treatment	2,190,639	3.06
Building Repair	3,679,054	5.14
Street Cleaning and Planting	2,765,372	3.87
Total	$10,468,891	$ 14.63



ORGANIZATION CHART
BUREAU OF STREET REPAIR
CITY AND COUNTY OF SAN FRANCISCO
JUNE 30, 1962

BUREAU OF STREET REPAIR

F. D. Brown, Superintendent

FUNCTIONS

The functions of the Bureau of Street Repair have been set forth in previous reports as follows:

"Routine work includes the maintenance and repair of streets and appurtenant structures such as gutters, curbs, retaining walls, public stairways, pedestrian underpasses and overpasses, guard rails and fences; the maintenance of City dumps; the maintenance and operation of lift bridges and tunnels.

"Work ordered by the Director includes traffic channelization, minor street alterations, minor construction and emergency work for the protection of the City and/or the public.

"Work performed for other departments or bureaus includes the repair of pavement in Municipal Railway track areas, the repaving of trenches opened by the Bureau of Sewer Repair for the installation or repair of side sewers, the repair of state highways within the City and the repair of pavements in school yards and the yards of other City institutions. The Bureau also performs other minor services of varied nature.

"The City's charter provides that repair or reconstruction on any one job shall not exceed a cost of $2000. It also prohibits work on unaccepted streets, except in emergency, and on sidewalks in front of private property. Unaccepted streets are those streets that have not been properly improved and officially accepted for maintenance and repair by the City.

"Activities are further limited by state law governing the expenditure of monies from which the bureau is financed."

In December 1961, a contract was negotiated for the sale of waste material from street and sewer repair. Inasmuch as dumps are maintained by the contractor, "the maintenance of City dumps" is no longer a function of this bureau.

On February 23, 1962, the new Geary Expressway Underpass at Fillmore Street was accepted and placed in the custody of the Bureau of Street Repair. Henceforth, the maintenance and operation of "lift bridges and tunnels" will read "lift bridges, tunnels and underpasses".

From May 15 through June 27, 1962, the bureau repaved street openings made by the San Francisco Water Department. This work, normally done by a private paving company under contract procedure, became necessary when private asphalt plants were shut down because of a labor strike.

Maintained road mileage is as follows:

Secondary Streets (Secondary Roads)	622.38
Major Streets (Primary Roads)	193.73
State Highways	13.88
Total	829.99

Inasmuch as San Francisco is a combined city and county, its streets and road systems are one and the same.

ORGANIZATION AND PERSONNEL

The organization and personnel of the bureau remained about the same as for the previous year. An organization chart, as of June 30, 1962, accompanies this report.

For several years regular working hours for street repair crews have been 7:30 a.m. - 11:30 a.m. and 12:30 p.m. to 4:30 p.m. On Monday, February 12, 1962, they were changed to 7:30 a.m. - 12:00 noon and 12:30 p.m. to 4:00 p.m. The earlier than normal starting and quitting times eliminate conflict with one of the day's two peak traffic periods. Furthermore, it eases the Maintenance Yard's exodus problem at 4:30 p.m.

MUNICIPAL ASPHALT PLANT

Asphaltic mixtures produced at the Municipal Asphalt Plant during 1961-62 were as follows:

		COMPOSITION				
Mix Designation	Tons	Asphalt	#6	5/16"	5/8"	1¼"
Surface	3,194	8½	91½			
School	7,496	7	60	33		
Topeka	37,766	6	45	25	24	
Spreader	75	5½	40	25	17½	12
Binder	450	3½	21	28	22½	25
Cold	278	*	35½	27½	30½	
Total	49,259					

* ½% asphalt and 6% Pacific specification 300 fuel oil.

Aggregates were screened into "hot bins" from a combination of Antioch (fine graded) sand, coarse graded sand and three sizes of gravel. Asphalt used was 60-70 penetration, paving grade.

Production costs for the 49,259 tons produced during the year were as follows:

Direct Labor	$ 47,301 or	$0.96 per ton
Indirect Labor	2,010 or	.04 per ton
Overhead	9,250 or	.19 per ton
Materials	191,728 or	3.89 per ton
Gas, Electricity, etc.	16,858 or	.34 per ton
Total	$267,147 or	$5.42 per ton

All maintenance and worn part replacement was done by the operating crew during slack work days or on Saturdays with the following exceptions:

At about 3 p.m. on Friday, November 3, 1961, the storage bin loading elevator belt broke. It was raised by G. W. Thomas Rigging Company and secured over the pulleys at 4:00 p.m. on Monday, November 6, 1961. Aggregate stocked in the bins was sufficient to permit continuous operation.

At about 1:00 p.m. on November 16, 1961, the "hot bin" loading elevator chain broke. It was raised by the Ballinger Drayage Company during the morning of November 17, 1961; the plant resumed operation in the afternoon.

On Saturday and Sunday, April 7 and 8, 1962, bricklayers from the Bureau of Sewer Repair and Sewage Treatment replaced twelve courses of firebrick in the dryer.

On June 13, 1962, the Howe Scale Company was called upon to service and adjust the aggregate batching scale. Arrangements were made for the overhaul of both the aggregate batching and the asphalt weighing scales.

On June 18, 1962, Bureau of Building Repair painters completed the painting of the dryer, cyclone, exhaust piping and the "cold" elevator.

During the month of June, 1962, the plant furnished 40.5 tons of asphaltic mixtures to the San Francisco Airport and 49.5 tons to the San Francisco Naval Shipyards. Those agencies could not obtain asphaltic mixtures elsewhere because privately owned plants were shut down by a labor strike.

EXPENDITURES

Accompanying tabulations show expenditures for each of the several budgeted items for each of the past five years. Percentage increases for road repair costs, wage rates and materials prices are shown for "Street Repair." Percentage increases for bridge and tunnel maintenance and operation costs and for salary rates are shown for "Bridges and Tunnel."

EXPENDITURES

STREET REPAIR

Budget Item	1957-58	1958-59	1959-60	1960-61	1961-62
Permanent Salaries	$ 37,467	$ 38,904	$ 41,401	$ 44,817	$ 44,878
Allowance for Overtime	163	59	109	43	140
Allowance for Holidays	582	771	773	878	636
Temporary Salaries	387	1,346(a)	1,806(a)	139	296
Wages	828,883	885,991	934,412	994,338	1,022,593
Contractual Services	84,244	83,840	93,325	89,469	87,246
Auto Mileage - Employees' Cars	61	23	24	38	25
Truck Hire	10,271	11,507	12,195	12,983	13,760
Materials & Supplies	250,736	256,085	253,323	259,575	258,654
Equipment	48,224	93,286	20,652	52,479	23,756
Accident Compensation (c)	8,187	12,801	19,759	11,220	10,119
Automobile Insurance			627	6,820	7,282
Retirement Allowance (c)	202,207	206,886	198,809	203,235	125,140(b)
Employer's Tax, Social Security (c)			16,165	24,941	33,810
Allowance for Medical Plans (c)		3,007	7,566	9,160	9,078
Services of Other Departments	19,787	21,181	22,936	23,331	24,200
Sub-Total	1,491,199	1,615,687	1,623,882	1,733,466	1,661,613
Improvements	3,158	19,202			
Gross Expenditures	1,494,357	1,634,889			
Road Repair Costs; * % Increase:					
Over Previous Year		5.8	5.5	4.7	-.9
Over 1957-58		5.8	11.6	16.8	15.7
Wage Rates; % Increase					
Over Previous Year		6.5	6.4	5.8	5.0
Over 1957-58		6.5	13.4	19.9	25.9
Materials Prices: % Increase:					
Over Previous Year		1.6	-.0	-.6	-.2
Over 1957-58		1.6	.5	-.1	-.3

* Equipment Excluded; "c" Allowances Adjusted

(a) Sick Leave Relief for Retiring General Foreman.

(b) Contribution Rate Reduced

(c) Includes Allowance for other Bureaus and Departments.

EXPENDITURES	BRIDGES AND TUNNELS				
Budget Item	1957-58	1958-59	1959-60	1960-61	1961-62
Permanent Salaries	$120,242	$123,669	$126,754	$124,888	$128,588
Allowance for Overtime	43	17	38	39	49
Allowance for Holidays	5,790	5,687	5,725	5,699	5,837
Temporary Salaries	10,167	13,151	6,297	9,768	7,185
Contractual Services	21,428	15,725	18,181	20,418	21,581
Materials and Supplies	1,206	1,180	1,224	1,448	1,475
Services of Other Departments	8,557	8,387	8,923	10,145	7,498
Total Expenditures (a)	$167,433	$167,816	$167,142	$172,405	$172,213
Expenditures; % Increase					
Over Previous Year		.2	-.4	3.1	-.1
Over 1957-58		.2	-.2	3.0	2.9
Salary Rates; % Increase					
Over Previous Year		4.0	5.3	0.3	4.3
Over 1957-58		4.0	9.5	9.8	14.6

(a) Accident Compensation, Retirement Allowance, Employer's Social Security Tax and Allowance for Health Service System are included in Street Repair Budget.

BRIDGES AND TUNNELS

The City's three bascule type bridges and their operation were described in report for year ending June 30, 1960; Broadway Tunnel and its operation was described in report for year ending June 30, 1959.

Bridge openings during the past year and the previous five years were as follows:

Year	Third Street	Fourth Street	Islais Creek
1961-62	2122	1650	941
1960-61	1503	1102	962
1959-60	1008	573	762
1958-59	1203	757	1084
1957-58	1322	909	1492
1956-57	1185	629	1453

The increase in the number of openings of the Third Street and Fourth Street bridges is attributable to the passing of an increased number of pleasure craft.

Statistics regarding Broadway Tunnel ventilation, lighting and traffic are as follows:

Ventilation - Blower Operating Time

Year Ending June 30	North Bore - Westbound Traffic				South Bore - Eastbound Traffic			
	Slow		Fast		Slow		Fast	
	Hours	Percent	Hours	Percent	Hours	Percent	Hours	Percent
1962	891.3	10.17	19.6	.22	112.8	1.29	32.3	.37
1961	423.7	4.83	10.8	.12	51.7	.59	36.0	.41
1960	200.1	2.28	5.9	.07	32.2	.37	26.2	.30
1959	228.5	2.61	5.6	.06	39.3	.45	33.9	.39
1958	291.6	3.33	10.0	.11	37.7	.43	23.6	.27
1957	322.4	3.68	7.8	.09	37.2	.42	26.3	.30

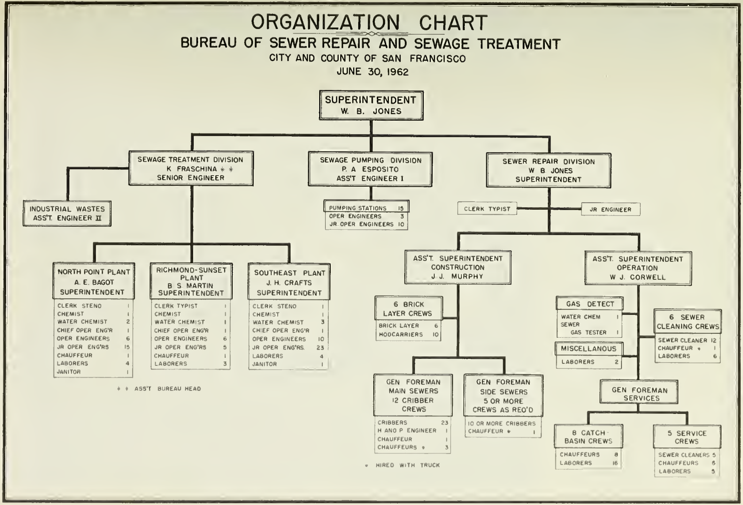
Lighting - Lamps Replaced

	Occasions	72T8's	72T12's	Total
Lamps in Service		1004	332	1336
Replaced During Year	3	365	17	382
Previously Replaced	41	4299	324	4623
Totals (Since Dec. 1952)	44	4664	341	5005

Traffic Counts

		Eastbound	Westbound
Tuesday	December 15, 1959	12,216	10,359
Thursday	July 10, 1958	11,144	9,478
Wednesday	March 16, 1955	10,607	9,795
Monday	August 17, 1953	9,361	8,878
Wednesday	February 11, 1953	8,668	8,770

The tunnel was put into service in December 1952.


ORGANIZATION CHART
BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT
CITY AND COUNTY OF SAN FRANCISCO
JUNE 30, 1962

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT

W. B. Jones, Superintendent

The Bureau of Sewer Repair and Sewage Treatment is responsible for the maintenance and operation of the City's sewerage system including main sewers and interceptors, pumping stations, treatment plants and outfalls. It is divided into 3 divisions: Sewer Repair, Sewage and Waste Treatment, and Sewage Pumping. The Sewer Repair Division maintains and repairs public sewers and appurtenant structures and services mosquito complaints originating in drainage catchbasins. The Sewage and Waste Treatment Division operates and maintains 3 primary sewage treatment plants, conducts sanitary surveys on shore waters, regulates and controls industrial wastes discharges to sewers, analyzes air samples for pollutants and advises other City departments on the maintenance and operations of their sewage treatment facilities. The Sewage Pumping Division operates and maintains 15 sewage pumping stations.

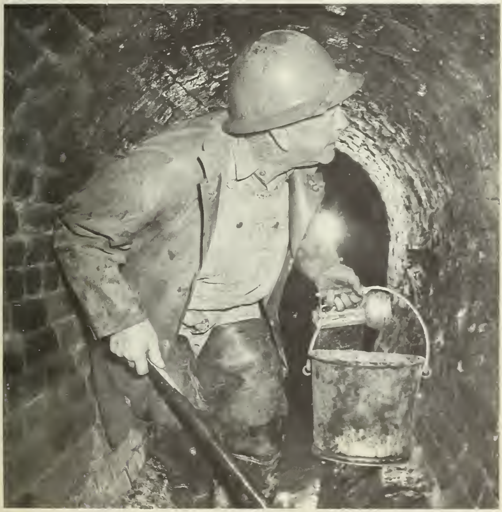
There was a reduction of force consisting of 5 Junior Operating Engineers and one laborer in the Sewage and Waste Treatment Division which reduced the budgeted employments in the Division to 100. This reduction was brought about by cessation of sludge drying at the Southeast plant. Employments in the other divisions remained at 14 for Sewage Pumping and 108 for Sewer Repair. Thus the total for the Bureau is 222. These employments are supplemented by one Junior Engineer and one Clerk-Typist for Sewer Repair and 9 maintenance personnel for Sewage Treatment, all assigned from other bureaus and departments and 5 chauffeurs hired with their trucks on a contractual basis by Sewer Repair. In addition, the Sewer Repair Division has a varying number of non-budgeted employments (20 are authorized) who perform new construction and repairs in connection with side sewers and who are paid by assessments against affected property owners. Thus there are a maximum of 258 employments under the control of the Bureau. Actually, there are normally from 6 to 10 less than this because of varying side sewer employments which depend upon activity in the building industry.

The accompanying chart shows the organization of the Bureau by major functions and personnel. It also shows the names of those holding administrative positions.

The budget expenditure for the fiscal year totaled $2,190,639, of which $1,125,298 was for treatment plants and industrial wastes control, $126,421 was for pumping stations and $938,920 was for sewer maintenance and repair activities. In addition, the Sewer Repair Division expended $168,737 for side sewers paid for by property owners and $3,145 on work orders from other departments.

While the winter of 1961-62 brought an increase in rainfall as compared with the previous succession of dry years, there was still not enough rain to cause any serious problems to the Bureau.

On eight occasions during the year it became necessary to declare emergencies to enable the Bureau to complete the repair of broken sewers. The emergencies became necessary when it appeared that it would be impossible to complete the repairs at a cost within the $2000 Charter limitation. It is not practical to have such repair work done by contract since it is usually not possible to tell what is to be done until the street has been opened and usually an unsanitary condition exists which does not allow time for contract procedures.



COURTESY SAN FRANCISCO EXAMINER

INSPECTING BRICK SEWER

COURTESY SAN FRANCISCO EXAMINER

REPAIRING BRICK SEWER

	Sewage Treatment	Sewage Pumping	Sewer Repair
PERSONAL SERVICES			
Permanent Salaries *	$ 584,062	$ 87,689	$ 74,355
Overtime *	4,337	212	1,206
Holidays *	15,985	4,025	614
Temporary Salaries *	27,902	2,494	
Wages (Per Diem)	101,613		717,848
Sub-Total	$ 733,899	$ 94,420	$ 794,023
CONTRACTUAL SERVICES			
Power and Gas	118,699	23,103	
Plant Equipment	62,047	4,495	
Field Equipment	2,984	173	28,291
Sludge Disposal	11,658		
Landscape Maintenance	14,399		
Miscellaneous Services	1,682	925	9,217
Hired Trucks			44,712
Sub-Total	211,469	28,696	82,220
MATERIALS AND SUPPLIES			
Replacement Parts	28,978	951	1,084
Field	529		39,353
Plant	20,376	1,531	
Fuels and Lubricants	2,884	366	12,743
Treatment Chemicals	111,176		
Sub-Total	163,943	2,848	53,180
EQUIPMENT			
New	3,771	314	1,469
Replacement	12,216	143	8,028
Sub-Total	15,987	457	9,497
TOTAL	$1,125,298	$ 126,421	$ 938,920

* For Monthly Employees

SEWER REPAIR DIVISION

The Sewer Repair Division cleans, repairs, maintains and makes minor additions to the various components of the sewerage system including main sewers, side sewers and appurtenant structures. The Division also tests for explosive and other gasses which may be found in the sewer system.

In order to organize the work, the personnel are divided into units or working groups consisting of sewer cleaning units, eductor units, service units, main pipe sewer units, bricklayer units, side sewer units, gas detection unit, material trucks, digging unit and compressor unit. While many of these groups frequently assist each other, the latter three may be considered almost entirely subsidiary in that their principal function is to assist other units in the performance of their work. A summary of the activities of these working units is to be found in the accompanying tabulation.

SEWER CLEANING

Sewer cleaning units clean main sewers, pumps and tanks at pumping stations and treatment plants, do miscellaneous work in connection with sewers and handle complaints occasioned by storms when service crews cannot handle all calls.

Sewers are normally cleaned by buckets dragged between manholes. Other methods used are rodding of pipe sewers and manual cleaning of large sewers. Many miles of sewers are also cleaned by flushing rather than the more laborious methods.

There are 6 sewer cleaning units, each consisting of 2 sewer cleaners and one laborer equipped with a specially designed truck containing the necessary equipment such as hoses, hand tools, buckets, cable and power hoists. Another of the older units was replaced during the year.

Routine activities during the year were principally in the Sunset, Richmond, Marina and South of Market districts. However, emergency activities such as the grease problems at Fisherman's Wharf and the Lower Financial District and removal of sand from the sump at the Yosemite Pumping Station required so many man hours that the time available for routine activities was quite limited.

EDUCTOR OPERATIONS

An eductor unit consists of a truck mounted Elgin eductor with a gasoline powered pump and tank manned by a chauffeur and 2 laborers. Its principal function is the cleaning of catchbasins, but being a very versatile unit, it is put to many other uses where a source of water is needed or where pumping is required.

There are normally 8 eductor units operating with 2 additional machines for standby. One of the older units was replaced with a new one during the year. The new machine, like the previous 3 which were purchased, is of the double reel type. This type is preferable because of the increasing number of one-way streets on which these units operate.

SERVICE UNITS

Service units service complaints from the public and other sources, wet down main and side sewer backfills, flush sluggish or temporarily clogged pipe sewers, establish the necessity for specialized work by other crews and do miscellaneous emergency work.

Each of the 5 crews consists of one sewer cleaner, one chauffeur and one laborer and uses a one-ton truck with a special utility body equipped with hoses, lights, barricades and other tools and equipment. Four of the crews are on regular day work and the fifth unit works evenings from 4 p.m. to midnight. No weekend work is scheduled.

Service crews spent 53.8% of their time on service calls and 46.2% on other work. During the fiscal year a total of 12,592 calls were made, 6,313 on complaints and 6,279 on other work.

The following tabulation shows the breakdown of work done by type of work and number and percent of calls.

Type of Work	Calls			
	Number		Percent	
Side Sewer				
Relieved clogged sewer	2907		23.1	
Found trouble inside property	283		2.3	
Wet down construction backfill	296		2.3	
Determine if side sewer exists	277		2.2	
Found side sewer broken	291	4,054	2.3	32.2
Main Sewer				
Found main sewer broken	509		4.0	
Relieved clogged sewer	648		5.2	
Examined condition	482		3.8	
Wet down construction backfill	301	1,940	2.4	15.4
Catchbasins and Manholes				
Remove obstruction	429		3.5	
Replace cover	309		2.4	
Silence noisy cover	342		2.7	
Examine condition	193	1,273	1.5	10.1
Miscellaneous				
Service lights and barricades	969		7.7	
Investigate seepage and leaks	652		5.2	
Clean at pump stations	488		3.9	
Deliver materials to job	242		1.9	
Remove deposits on sidewalk	88		0.7	
Mosquitoes	2567		20.4	
Not classified	319	5,325	2.5	42.3
Total		12,592		100.0

MAIN PIPE SEWERS

Cribbing crews excavate, lag and backfill main sewer trenches, lay pipe in the 6 and 8-inch sizes, excavate and lag and backfill for structure repairs, cut pavement and do miscellaneous work. When conditions are right these crews are frequently assisted by the digging unit.

There are normally 11 cribbing crews consisting of 2 cribbers each although this arrangement is subject to some variation to suit conditions. One of the crews is assigned to the compressor unit and thus spends most of its time cutting pavement for the other crews.

BRICKLAYER WORK

Bricklayer crews repair main brick and concrete sewers, construct and repair manholes and catchbasins, lay sewer pipe and do miscellaneous brickwork when required.

There are 2 types of bricklayer crews, top crews and underground crews. A top crew consists of a bricklayer and a hodcarrier equipped with a $1\frac{1}{2}$ ton truck. Their functions are to repair catchbasins and manholes, lay pipe in trenches and do miscellaneous brickwork. An underground crew consists of a bricklayer and 2 hodcarriers equipped with a trailer mounted tool box. Their function is the repair of large brick and concrete sewers which can be worked on from inside the sewers.

SIDE SEWERS

Side sewer crews excavate, lag and backfill sewer trenches and lay sewer pipe. Two cribbers normally constitute a crew and the number of crews varies with the demand for this type of work which is dependent upon activity in the building industry. Three of the crews are motorized and carry sufficient tools, equipment and materials to complete a job and move without delay. Non-motorized crews are equipped with trailer-mounted tool boxes and must be moved by the hired trucks. Since side sewers belong to the fronting property owners, all side sewer construction and repair is at the property owner's expense. All such work is done by this bureau except where side sewer construction is included with main sewer construction under public contract.

GAS DETECTION

The primary function of the gas detection unit is to conduct a continuing City-wide testing and inspection survey of the sewerage system and the supervision of the use of gas detection equipment by underground workers. Tests for explosive and toxic gasses are made at sewer manholes and at special locations such as pumping stations and sewage treatment plants. The gas most frequently detected is methane which usually results from leakage in gas mains and services.

The Gas Detection Unit also assists actively in the maintenance of safety standards in connection with all work in the Sewer Repair Division.

The unit is also in charge of the photographing of the interior of sewers. During the year, 15,468 feet of main sewer were photographed. These photographs have proved invaluable in establishing the condition of sewers.

MATERIAL TRUCKS

Five trucks together with their drivers are hired on a contractual basis to assist in the work of the Division. These trucks haul materials and equipment to jobs, remove waste material to dumps and move non-motorized units from one location to another. One of these trucks is assigned the duty of visiting all jobs on Saturdays, Sundays and holidays and seeing that all lamps and barricades are in proper order.

DIGGING UNIT

This unit consists of a combination front-end loader and back-hoe which is manned by an engineer of hoisting and portable engines. This unit assists in any excavation work where the danger of damage to other utilities is not excessive.

COMPRESSOR UNIT

The compressor unit consists of a truck mounted compressor together with its tools manned by 2 cribbers and a chauffeur. It is used to assist other groups, principally main sewer crews, in opening streets for excavation.

SHOWING WORK DISTRIBUTION & COST -- SEWER REPAIR DIVISION

Work Unit		Per- cent			Totals			Cost per Unit
1	Sewer Cleaning	88.0	Cleaning Sewers	$ 105,479		488,665	Lin. Ft. Cleaned	$ .22
		12.0	Other Work	14,445	$ 119,924			
2	Eductor Operations	69.0	Cleaning Catchbasins	91,986		14,980	Basins Cleaned	6.14
		31.0	Other Work	41,632	133,618			
3	Servicing	53.8	Servicing Complaints	60,118		6,313	Complaints	9.52
		46.2	Other Work	51,688	111,806			
4	Main Pipe Sewer Repairs	100.	Repairing Pipe Sewers	179,029	179,029	6,790	Lin. Ft. at 444 Locations	26.37
5	Brickwork	63.7	Repairing Brick Sewers	80,751		15,296	Lin. Ft. Repaired	5.28
		6.2	Building Catchbasins	7,906		16	Catchbasins Built	494.15
		3.9	Building Manholes	5,002		10	Manholes Built	359.60
		9.4	Repairing Catchbasins	11,924		455	Catchbasins Repaired	26.21
		13.9	Repairing Manholes	17,620		589	Manholes Repaired	29.91
		2.9	Repairing Concrete Sewers	3,654	126,857	749	Lin. Ft. Repaired	4.88
6	Side Sewer Work	72.6	Installations	102,755		308	Installations	333.62
		26.2	Repairs	37,132		133	Repairs	279.19
		1.2	Connections	1,634	141,521	19	Connections	86.00
7	Gas Detection	32.8	Testing Manholes	4,419		3,419	Manholes Tested	1.29
		67.2	Other Work	9,036	13,455			
8	Work Orders			3,145	3,145		Not Applicable	
9	Miscellaneous			42,625	42,625		Not Applicable	
	Total Not Including Work Unit 6			730,459				
	Total For Work Unit 6			141,521				
	GRAND TOTAL				$ 871,980			

NOTE: The costs tabulated here do not include overhead or other indirect charges.

SEWAGE AND WASTE TREATMENT DIVISION

GENERAL

The Sewage and Waste Treatment Division operates the North Point, Richmond-Sunset and Southeast Sewage Treatment plants, controls discharge of industrial wastes, and gives advice on operation of sewage treatment facilities under jurisdiction of other City Departments.

The Bureau of Engineering performs engineering design for improvements. Major repairs and maintenance requiring the services of specialized crafts are done by the other Department bureaus and by the Purchaser's shops. The Park and Recreation Department maintains landscaping at all plants.

The three plants operated continuously during the year except for limited shutdowns for repairs. The Bayshore Sanitary District flow was connected to the system in February 1962. Initial flow to the Southeast Plant from this source was 2.5 million gallons daily, but by June the District had reduced the flow to 0.8 million gallons daily by control of bay water inflow. Areas in San Francisco still discharging untreated sewage to the bay will be connected to the plants on completion of the connecting sewer and pumping station construction program now underway.

Dryer operation at the Southeast Plant was discontinued December 14, 1961 because of excessive maintenance costs and to avoid the expense of installing a dust collection system required under Bay Area Air Pollution Control District Regulation 2. To replace sludge drying, a 100-ton capacity vacuum filter cake storage bin was constructed and cake hauling and burial in the garbage fill south of the county line by the Sunset Scavenger Company under contract commenced January 9, 1962. This has proven to be a more economical method of sludge disposal than heat drying. A contract for rehabilitation of the five digesters in Group I was completed during the year. The work consisted of replacing all internal piping with external piping to prevent recurrence of pipe failure and improving means for adding and recirculating sludge.

SEWAGE TREATMENT METHODS

At each plant sewage is treated for removal of oil, grease, floating material, grit, and settleable solids. Grit from all plants and screenings from the North Point and Southeast Plants are hauled by truck to the garbage fill south of the county line. At the Richmond-Sunset Plant screenings are incinerated and sludge is digested in two-stage digestion, elutriated, and dewatered by vacuum filtration. Filter cake is hauled to City parks for use as a soil conditioner. Raw sludge from the North Point Plant is pumped to the Southeast Plant where it is treated together with raw sludge from the Southeast Plant. Treatment consists of thickening, two-stage digestion, elutriation, vacuum filtration and (until December 14, 1961) flash drying. A small quantity of the dried sludge was used as a soil conditioner by other City departments, and the balance was sold under contract. With discontinuance of drying, the vacuum filter cake is hauled under contract to the garbage fill south of the county line for burial.

TREATMENT PLANT OPERATION

The following table summarizes data on flows, material removed, chemicals added and products handled, and power and gas purchased for the three plants.

	North Point	Richmond-Sunset	Southeast
Sewage Flow, million gallons			
Total (a)	17,337	5,975	6,395
Avg. day	47.6	16.5	17.6
Avg. day, dry weather (b)	45.2	16.1	16.9
Max. day, wet weather	92.0	22.8(c)	26.1(c)
Max day, dry weather	53.0	18.8	25.8
Max rate, wet weather	107	30(c)	44(c)
Max rate, dry weather	74	28	31(d)
Screenings, cu ft			
Total	35,961	9,350	30,020
Max. day	320	43	189
Per million gallons	2.1	1.6	4.7
Grit, cu ft			
Total	73,840	21,250	51,190
Max day	965	160	405
Per million gallons	4.3	3.6	8.0
Chlorination, lb (e)			
Pre	498,410		110,310
Post	981,090	522,400	37,840
Process water (effluent)			6,650
Total	1,479,500	522,400	154,800
mg per liter dry weather	13.2	11.5	28.6
Sludge Solids, M lb (dry)			
From sedimentation	25,436		33,020(f)
To digesters (g)		6,405	41,318
Filter Cake		848	10,476(h)
Dried Sludge			4,510(i)

	North Point	Richmond-Sunset	Southeast
Ferric Chloride			
Total, lb		32,240	620,210
% filter cake solids		3.80	5.92
Gas Production, M cu ft			
Total		51,990	206,958
Avg. day		142	567
Power and Gas Purchased			
Power, total M kwh	5,524.8	1,782.8	4,627.2
Power, avg/mo, M kwh	460.4	148.6	385.6
Natural gas, total C cu ft	68,614	31,865	37,114
Natural gas, avg/mo, C cu ft	5,718	2,655	3,093
Hauling			
Trips, grit and screenings	728		283
Trips, grit and filter cake		541	
Trips, dried sludge and filter cake			158(j)

NOTES:

(a) For 364.3 days North Point, 362.4 days Richmond-Sunset, 364.0 days Southeast.

(b) Excluding days with .01 inch or more rain and dry days following days with .05 inch or more rain.

(c) Flow restricted during storms to avoid overloading grit handling facilities.

(d) Estimated; throttling of head gate obscures true flow.

(e) North Point: pre-chlorination continuous; post-chlorination March through November and during extended dry weather periods in winter months. Richmond-Sunset: post-chlorination continuous except during storms and on 12 days of chlorinator malfunctioning. Southeast: pre-chlorination 21 days and combined pre and post-chlorination 12 days during May and June to test effect on bay waters.

(f) Includes recirculating load from raw sludge thickening and digested sludge elutriation overflows.

(g) From raw sludge thickening.

NOTES (Continued):

(h) 4,510 M lbs to dryers. Of balance 7,378 tons (wet basis) hauled under contract to garbage fill at $1.58 per ton and 458 tons (wet basis) used by City.

(i) 2,088 tons sold to Contractor at $1.10 per ton and 408 tons used by City. Weights include residual moisture.

(j) 408 tons dried sludge and 458 tons filter cake used by City.

COST OF OPERATION

Based on an estimated contributory population of 770,000 the cost of operation was approximately $1.46 per capita.

MAJOR MAINTENANCE

NORTH POINT PLANT:

Reconstruction of "A", "B", "D", and "E" lift pumps.

Reconstruction of collecting mechanism in No. 2 grit tank.

RICHMOND-SUNSET PLANT:

Painting underside of floating cover on secondary digester.

SOUTHEAST PLANT:

Reconditioning one 14,000 gpm lift pump.

Replacing 150 ft. section of 22" waste overflow return line.

Reconditioning 5 sludge heaters and 5 recirculating pumps in Digester Control I.

Reconditioning sludge collecting mechanism in No. 2 sedimentation tank.

Replacing 2 spray water pumps and 2 primary elutriation overflow pumps.

SPECIAL STUDIES AND INVESTIGATIONS

1. Completed:

    Use of ozone for odor control.

    Chlorine demand of tannery wastes.

    Dewatering digested sludge at San Francisco Airport plant.

2. Continuing:

    Identification of source in leak and seepage complaints.

    Sanitary survey of shore waters.

    Chlorine demand of sewage on off hours.

    Effect of mechanical flocculation on sedimentation.

    Correction of grease deposition in Fishermans Wharf sewers.

    Air pollution level at ocean beach.

    Radiological monitoring of wastes.

INDUSTRIAL WASTES

The industrial wastes engineer employed in May 1961 resigned in November 1961 and the position remained vacant until filled by a temporary employee in April 1962.

Files and survey maps were brought partially up to date and a fish cannery, a copra plant, a tannery, and packing houses in the Southeast district were resurveyed.

SEWAGE PUMPING STATIONS

GENERAL

The Sewage Pumping Division operates and maintains 15 sewage pumping stations which are divided into 3 districts corresponding to the tributary districts of the North Point, Richmond-Sunset and Southeast Treatment Plants. Their primary purpose is to prevent pollution of recreational beaches and shore waters by intercepting and boosting sanitary flow from low-lying areas of the City into main interceptors leading to the treatment plants.

These stations are generally designed and constructed for capacities sufficient to handle all sanitary sewage and in addition, to take care of a rainstorm of 0.02 inches per hour. All stations, with one exception, are provided with overflow spillways so that run-off beyond the capacity of the stations is discharged into the ocean or bay. In most cases, the stations have sufficient capacities so that one pumping unit can be shut down for repairs during the dry season. Pumping equipment for each station is electrically operated by line starters energized by a combination of float switches which are activated by the periodic (or abnormal) rise and fall of the sump liquid level. One station, (Commercial Street), has a gasoline engine driven standby pump. All stations except 3 are unattended. Operators are on duty from 8 a.m. to midnight at the Commercial Street and Marina Stations. At Sea Cliff No. 2, an operator is on duty from 8 a.m. to 4 p.m. These shifts are required to assure continued operation and to prevent flooding of basements in the downtown business area and pollution of recreation beaches and shore waters in the Yacht Harbor, Aquatic Park and Phelan Beach areas.

Occurrences of major interest at the various pumping stations during the fiscal year were as follows: Alterations were completed to the water supply systems in the pumping stations by eliminating possible cross-connections. This was required by the State Department of Public Health.

A sand pump was installed at the Fourth Street Pumping Station to eliminate excessive sump deposits and reduce maintenance costs of sump and other pumping equipment.

Heavy sand accumulations in the sump of the Yosemite Pump Station continued to be a major problem requiring many man-hours of effort for removal. Experiments were conducted using an eductor nozzle feeding through a booster pump which was a stand-by pump borrowed from one of the treatment plants. While this is far from being a perfect arrangement it was superior to any other that had been tried and it is planned to make the arrangement semi-permanent pending the time when a more complete and satisfactory solution can be found.

PERSONNEL

There were no personnel changes during the year. The 14 budgeted employees were required for the following services:

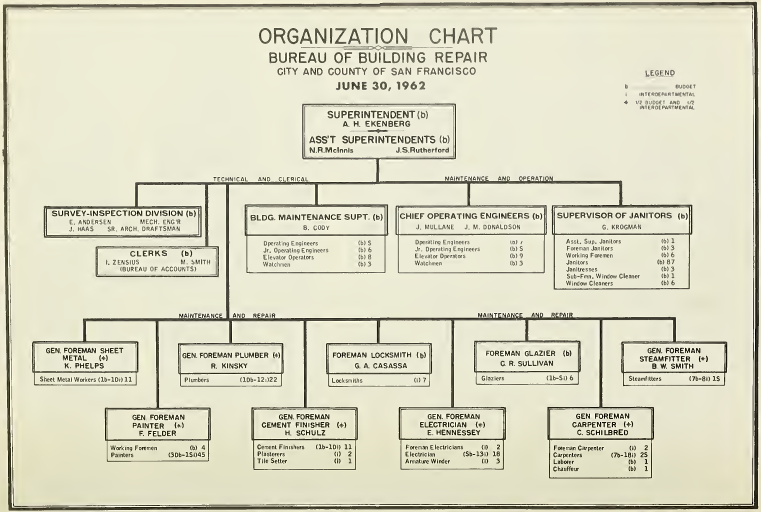
Administrative: One Assistant Electrical Engineer is in charge of the administration of the division and acts as division head.

Supervisory: Three Operating Engineers under the direction of the Division head supervise operation and maintenance. Each Operating Engineer is in charge of one of the 3 districts.

Maintenance and Operation: Ten Junior Operating Engineers, each under the supervision of an Operating Engineer perform all necessary operation and maintenance work.

SEWAGE PUMPING STATIONS
EXPENDITURES & UNIT COST DATA
1961-1962

Location	Drainage Area in Acres	Million Gallons Pumped	Expenditures						Unit Cost Per M.G. Pumped For					
			Salaries	Contractual		Materials & Supplies	Equipment	Totals	Salaries	Contractual		Materials & Supplies	Equipment	Totals
				Maintenance	Heat Light & Power					Maintenance	Heat Light & Power			
General			$ 6,491	$ 238	$ 5	$ 282	$ —	$ 7,016	$ 1.38	$ .05	$ --	$ .06	$ --	$ 1.49
Commercial St.	93	306	21,169	103	1,337	218	67	22,894	69.18	.34	4.37	.71	.22	74.82
Fitzgerald Ave.	30	33	850	6	302	34	67	1,259	25.76	.21	9.15	1.03	2.00	38.15
Fourth St.	138	103	10,872	438	937	129	67	12,443	105.55	4.25	9.10	1.26	.65	120.81
Fulton St.	82	78	913	82	761	7	--	1,763	11.71	1.05	9.76	.08	--	22.60
Hunters Point	90	122	2,008	23	876	36	143	3,086	16.46	.19	7.18	.30	1.17	25.30
Hyde St.	14	26	1,448	190	198	31	--	1,867	55.70	7.30	7.62	1.19	--	71.81
Lakeshore	152	172	2,494	621	1,647	43	--	4,805	14.50	3.60	9.58	.25	--	27.93
Marina	1,125	2,164	24,832	1,885	6,929	857	90	34,593	11.48	.87	3.20	.40	.04	15.99
Mariposa St.	117	228	3,019	167	1,417	207	--	4,810	13.24	.74	6.21	.91	--	21.10
Park Merced	212	278	4,056	118	3,208	186	--	7,568	14.59	.42	11.54	.67	--	27.22
Pinelake	3	4	782	5	94	—	--	881	195.50	1.25	23.50	--	--	220.25
Sea Cliff #1	4	2	782	5	63	--	--	850	391.00	2.50	31.50	—	--	425.00
Sea Cliff #2	83	113	1,658	270	1,620	234	--	3,782	14.67	2.39	14.34	2.07	--	33.47
Vicente St.	52	73	1,634	667	755	—	--	3,056	22.38	9.14	10.34	--	--	41.86
Yosemite Ave.	527	998	11,412	775	2,954	584	23	15,748	11.43	.78	2.96	.59	.02	15.78
Totals	2,722	4,700	$ 94,420	$ 5,593	$23,103	$ 2,848	$ 457	$126,421	$ 20.09	$ 1.19	$ 4.92	$ .61	$ .09	$ 26.90



ORGANIZATION CHART
BUREAU OF BUILDING REPAIR
CITY AND COUNTY OF SAN FRANCISCO
JUNE 30, 1962

BUREAU OF BUILDING REPAIR

A. H. Ekenberg, Superintendent

This Bureau is, as the name implies, that division of the Department of Public Works Maintenance and Operation activities which deals primarily with our public buildings. The scope of Bureau responsibilities is wide and varied, but of primary importance is the providing of services and materials for the maintenance, repair, replacement and reconstruction of the 321 City and County buildings which have been established by Charter authority or other policy determinations as being the responsibility of the Department of Public Works. While the above is the primary function, the following are the secondary Bureau activities, in relative order of importance and/or dollar value:

1. Provide operation and custodial personnel and supplies for 35 of the above buildings, requiring the full time services of 150 employees.

2. Provide necessary maintenance and repair services to other City departments through an interdepartmental work order procedure, or by competitive public contract. Relative importance and proportions of this phase of Bureau activities is illustrated graphically in Figure 1. The major portion of this work will be noted as being derived from the Board of Education, with other City departments accounting for lesser amounts.

3. Provide labor and supervisory services for street traffic painting by interdepartmental work order procedure from the Bureau of Engineering.

4. Provide inspection and survey services necessary for the development of a preventive maintenance program, and the compilation of data and material for the intelligent preparation of budgets. In addition, providing technical consultation and assistance to the operating activities in the appropriate maintenance and repair of properties.

5. Maintenance and repair of street name signs by work order procedure from the Bureau of Engineering.

6. Repair of street structures and sidewalks fronting on City property, and of various monuments in street areas by work order procedure from the Bureau of Engineering.

ORGANIZATION AND PERSONNEL

The organization chart included as a part of this report indicates the primary divisions within the Bureau, and their function as regards maintenance and repair, and maintenance and operation, in addition to the technical and engineering division providing survey and inspection services. Division, shop, or craft heads are shown therein as of June 30, 1962. In addition, the chart indicates the budgeted as contrasted with the interdepartmental positions.

Personnel of the administrative, technical and operational divisions consists entirely of budgeted employees, as does the clerical staff assigned to this Bureau from the Bureau of Accounts.

In the maintenance and repair or shop divisions, however, the majority of employments are enumerated as interdepartmental, and are not established as continuing positions, but only "as needed" when the services are required and the funds are provided. The major portions of these interdepartmental employments have been derived from school funds during preceding years. Of the budgeted shop employees, most are on assignment to various major public buildings. Such assignments, however, are not inflexible, and are subject to call as necessary when the need is urgent elsewhere.

SIGNIFICANT CHANGES, PROBLEMS, AND PROGRESS OF 1961-62

Interdepartmental Work Load

Total work load for all City agencies, which last year showed a decline of 1.5% over the previous period, this year showed a small increase of 1.9%. While in previous years work for the School Department constituted over 80% of our interdepartmental work load, it has diminished over recent years until it now represents but 65%. Thus, the increase in the total has been due to a general increase in work for other City departments, which has almost doubled in recent years and this year represents a 26% increase over that of 1960-61. The decline in work for the School Department, however, is due almost entirely to their budgeting a fixed annual amount for this purpose, despite the fact that labor and material costs have been constantly increasing over the past several years.

Miscellaneous repairs, done on a daily special requisition basis, continued to constitute the major portion of the work done for the schools. During the year, 11,414 requisitions were completed, an average of over 45 per day. Average total cost per requisition was $40.51, with direct labor representing 59.28%, material 16.15%, and overhead 24.57% of total cost. 56% of all completed requisitions cost $25 or less each, and almost 93% were $100 or less each.

Salaries, Wages, and Overhead Costs.

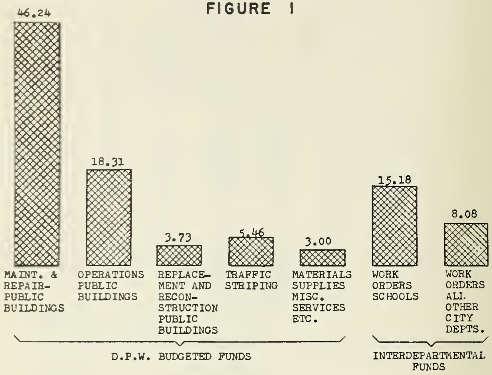
As was common throughout the nation in the construction industry, Bureau wages and salaries during 1961-62 recorded yet another significant increase in wages and salaries, continuing the trend of recent years. Weighted average for all Bureau wage personnel indicated an increase of 3.25% over the preceding year, while salaried personnel increased 3.57%. Weighted average for both groups combined indicated an increase of 3.33%. Bureau trend as compared with national averages for the building trades is indicated graphically in Figure 2.

In line with the recommendation of the Blyth-Zellerbach committee that the Charter limitation of $2,000 on repair work be raised to $5,000, it is of particular interest to note that our building trade cost index now stands at 190, as compared with the 1947-49 base of 100. The limit of $2,000 was established in 1946 by Charter amendment, after revision of the original limit of $1,000, established in 1932. As can readily be seen, unless the limitation is raised to a more realistic present level, the amount of maintenance and repair work which can be accomplished within the $2,000 limit will be steadily diminished.

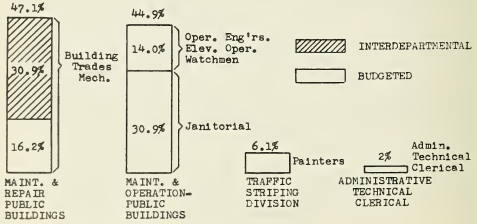
Total overhead for interdepartmental operations averaged 40.731% for the year, as compared with 47.401% for 1960-61, representing a decrease of 14% in our overhead charges.

BUREAU OF BUILDING REPAIR

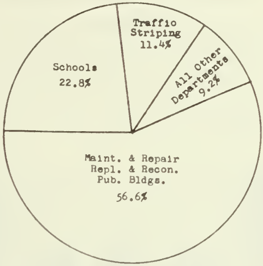
FIGURE 1



PROPORTIONAL EXPENDITURES OF ALL MONEY 1961-62

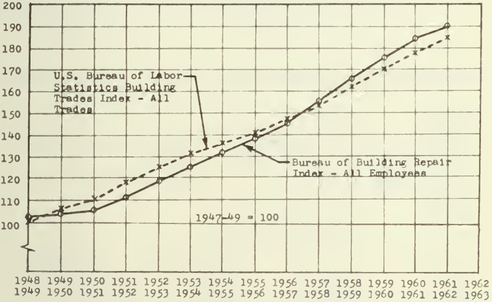


PERSONNEL ASSIGNMENT



ASSIGNMENT OF BUILDING TRADES PERSONNEL
(185 Employees)

FIGURE 2

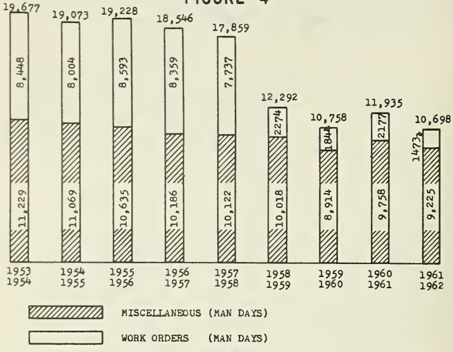


EMPLOYMENT COST INDEXES

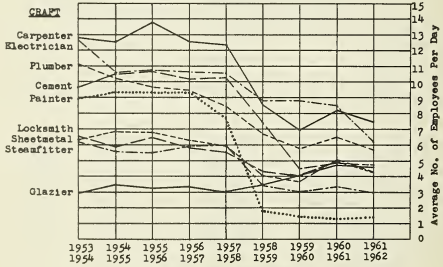
FIGURE 3

BUREAU OF BUILDING REPAIR

FIGURE 4



YEARLY WORKLOAD



DAILY MANPOWER REQUIREMENT

SCHOOL REPAIRS

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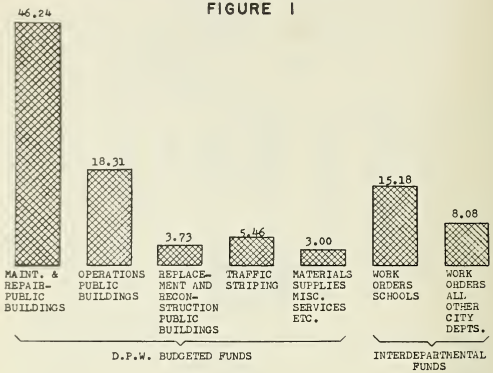
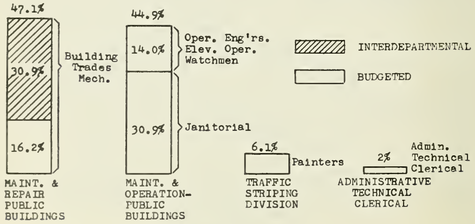
BUREAU OF BUILDING REPAIR

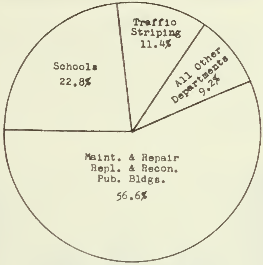
FIGURE I



PROPORTIONAL EXPENDITURES OF ALL MONEY 1961-62

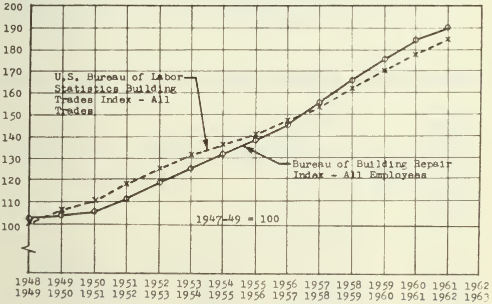


PERSONNEL ASSIGNMENT



ASSIGNMENT OF BUILDING TRADES PERSONNEL
(185 Employees)

FIGURE 2

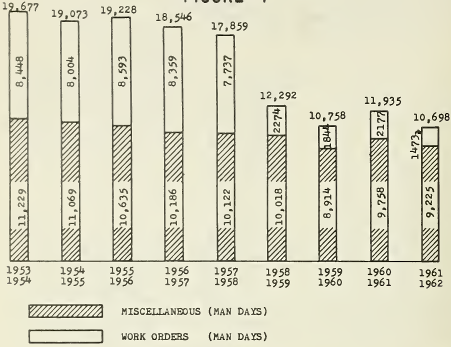


EMPLOYMENT COST INDEXES

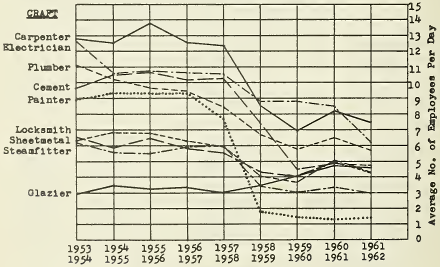
FIGURE 3

BUREAU OF BUILDING REPAIR

FIGURE 4



YEARLY WORKLOAD



DAILY MANPOWER REQUIREMENT

SCHOOL REPAIRS

TABLE 1

PUBLIC BUILDINGS UNDER THE JURISDICTION OF THE DEPARTMENT OF PUBLIC WORKS FOR MAINTENANCE AND REPAIR

	Buildings		1961-62	
Department and Activity	No.	Floor Areas Total Sq.Ft.	Total Budgeted Funds (Interdepartmental & General Repair	Unit Costs Based on Floor Areas-$/Sq. Ft.
Fire Department	59	590,000	$ 136,615	$0.233
Police Department (C)	9	101,293	32,366	0.320
Public Health				
Health Center Bldg.(C)	(4	103,370	42,077	0.335
and Health Centers	(7 (R)	22,151		
Adult Guidance Center	–	(4,500)	1,700	0.378
V.D.Control	1 (R)	6,200	3,517	0.567
Emergency Hospitals	6	33,352	9,693	0.291
Hassler Health Home	17	130,000	47,795	0.367
Laguna Honda Home	25	650,000	391,431*	0.602*
San Francisco Hosp.	33	753,000	460,120*	0.611*
Public Library	(19	314,540	73,590	0.225
	(8 (R)	13,280		
Public Welfare				
585 Bush Street	1	43,791	22,625	0.517
150 Otis Street	-	(17,900)	---	---
S.M.R.C.-Redwood City	1	10,000	4,190	0.419
Public Works				
City Hall (C)	2	526,540	129,463	0.246
Hall of Justice (C)	1	580,500	57,924	0.099
150 Otis Street (C)	2	40,900	13,772	0.337
Maintenance Yard (C)	10	72,890	13,366	0.183
Sewage Pumping Sta.	14	23,085	8,934	0.387
Sewage Treat.Plants	36	543,330	101,256	0.187
450 McAllister St.(C)	1	56,460	6,057	0.107
Real Estate Department				
Civ.Aud.-Brooks Hall	2	434,500	30,630	0.071
Sheriff				
County Jails #2 &#4	7	138,970	62,863	0.452

	Buildings		1961-62	
Department and Activity	No.	Floor Areas Total Sq.Ft.	Total Budgeted Fund (Interdepartmental & General Repair	Unit Costs Based on Floor Areas- $/Sq. Ft.
Juvenile Court				
Youth Guidance Ctr.	16	200,828	80,525	0.401
Log Cabin Ranch	16	32,000	18,363	0.573
Miscellaneous Depts.	16	214,994		
and Activities	1 (R)	6,012	31,145	0.141
	-	(20,700)		
TOTALS	314	5,641,986	$1,783,917	Ave. 0.316

NOTES

(R) Indicates building is rented. (Total of 17 rented buildings with a combined floor area of 47,643 square feet.)

(C) Indicates custodial and/or operational services also provided by Bureau of Building Repair.

(oo,ooo) These floor areas are not added to obtain the total floor areas of all buildings as these areas are included elsewhere with other buildings.

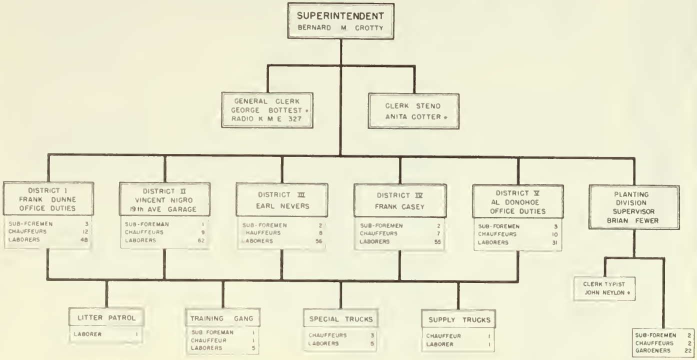
* Figures disproportionately large because of current deferred maintenance program which represents work not done in prior years.

($154,160 allowed for Replacement & Reconstruction of Public Buildings are not included in any of the above sums.)

ORGANIZATION CHART

BUREAU OF STREET CLEANING AND PLANTING

CITY AND COUNTY OF SAN FRANCISCO
JUNE 30, 1962



◆ BUREAU OF ACCOUNTS

BUREAU OF STREET CLEANING & PLANTING

Department of Public Works

Functions of the Bureau of Street Cleaning and Planting during 1961-62 remained generally the same as the preceding year with a slight increase in the number of curb miles of streets to be cleaned and the amount of landscaping to maintain. Although the functions of the Bureau remained constant, work is generally increasing each year and more economical and efficient ways of performing the work are diligently being sought.

During 1961-1962 the Bureau had 365 employees and expended a total of $2,765,372 of which $2,546,084 was required for street cleaning and $210,288 for landscape maintenance. The Bureau's 82 units of motorized equipment logged a total of 530,981 miles.

The Street Cleaning Division hauled 100,190 cubic yards of debris to the dump site in Northern San Mateo County, which was collected from 1650 curb miles of streets and 108 miles of center islands.

The Bureau received delivery of a new mechanical sweeper and a radio-equipped litter patrol truck.

The Department of Public Works radio station (KME 327), which is headquartered in the Bureau of Street Cleaning and Planting main office at 2323 Army Street, is one of our most useful and efficient operations, as evidenced by the number of calls shown in the following tabulation.

Year	Total Calls*	Originated by Bureau St. Cl. & Pl.	Originated by other Bureaus
1959-1960	13,385	8,815	4,570
1960-1961	13,805	9,587	4,218
1961-1962	17,377	11,742	5,635

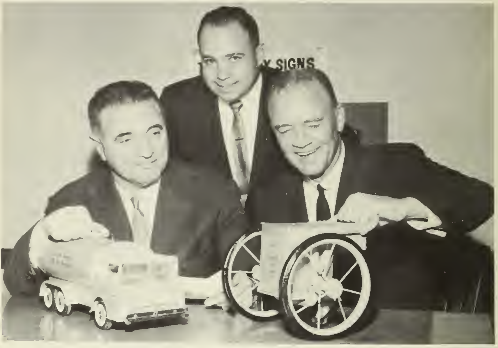
* Includes calls to and from transmitter and 30 mobile units.

In the 1960-1961 report it was mentioned that this Bureau was experimenting with some of the new synthetic broom fibers for main pickup brooms on our mechanical sweepers. Thus far, this material has proved to be superior in wearing quality and equal or better in sweeping quality to natural palmyra fiber. We intend to change over completely from natural to synthetic fiber in the near future. The following tabulation will show the saving that can be effected by use of the synthetic product. It is to be noted that the synthetic fiber outwears the natural fiber by over 11-1, a substantial saving in downtime (time not sweeping).

Type of Fiber	Cost per Broom	Average Mileage Per Broom	Cost per Mile
Natural	$ 33.50	240	.139
Synthetic	$232.00	2685	.086

Among several recommendations made by the Mayor's Committee for Municipal Management was one suggesting substitution of mechanical street sweeping at night in place of daytime hand sweeping in the downtown area. We have initiated a limited program as recommended by the Committee. However, due to parking and other problems in the north of Market area we have been conducting this experimental night operation in the south of Market business and industrial sections, and north of Market area bounded by Montgomery Street, Pacific Avenue, Market Street and the Embarcadero. Although the experiment has not been in progress for long, it appears to have merit and we intend to expand it to other areas during the coming year. A more complete report will be made of this operation in our next annual report. Litter control, through publicity and education, continues to be one of our most important functions. Although our formal program is relatively new, it has proven quite successful as the public has become aware that there is a problem and that individual cooperation is necessary to reduce the illegal littering of our streets. The annual litter control campaign conducted during May and June, 1962, was very successful, particularly in terms of cooperation from neighborhood and civic groups.

This year's campaign was preceded by a motorcade commencing at the City Hall and traveling throughout the major business districts of San Francisco. A picture of Mayor Christopher with the Co-Chairmen, Irwin Phillips and Royal Robert Bush, taken at the campaign kickoff meeting may be seen on page 133. An important phase of the 1962 campaign was undertaken in cooperation with the Board of Education. Galileo High School was selected as the target school. A giant rally and demonstrations by the student body received complete coverage from the various news media. A picture of the students committee with one of our litter patrol trucks may be seen on page 133. A contributing factor in the success of our anti-litter efforts is the splendid cooperation of the San Francisco Police Department, particularly their enforcement of pertinent laws and municipal codes.



MAYOR CHRISTOPHER, IRWIN PHILLIPS, ROYAL ROBT. BUSH

GALILEO HIGH SCHOOL STUDENTS COMMITTEE
AND LITTER PATROL TRUCK

The picture on this page will illustrate the litter problem caused by uncovered debris boxes. In order to control the use of these boxes so that they are not a danger or a nuisance, the Department of Public Works has prepared an ordinance with strict controlling provisions governing the use of these boxes. The passage of this ordinance will be a great help to this Bureau, as well as providing a greater degree of safety for the general public.

One problem which has developed in the last few years is the great amount of weeds growing on vacant city property and unimproved streets. In addition to being unsightly, much of this growth is a fire hazard, particularly when it is adjacent to buildings and structures. Since the ban on open burning this Bureau has had to control these weeds by other means. We have been hard pressed to keep up with this work by hand removal and have been experimenting with various chemical weed control agents. Although some of the chemicals have been partially effective, we are not satisfied with those we have used and are continuing our search for a reasonably effective weed control chemical.

A complete description of each of this Bureau's functions may be found in preceding annual reports. Performance records for 1961-1962 of gang sweeping, motor sweeping and motor flushing may be found in Tables 1, 2 and 3, respectively.

LITTER ON STREET CAUSED BY NO COVER ON DEBRIS BOX

In each budget for the past ten years this Bureau has requested the establishment of a position of Assistant Superintendent, but each year the request has been denied. As the responsibilities and functions of this Bureau continue to increase the need for this position becomes more acute, and its lack prevents sorely needed overall field supervision by the Superintendent or his delegate. At one time the administrative responsibilities of an operating bureau superintendent consisted of relatively few office-confining duties and practically no public relations functions. During the last decade this picture has completely reversed itself. Today, with ever-increasing demand by the public for more service at reduced costs, the head of a bureau must be continually researching latest methods applicable to his operations. He must attend meetings of numerous organizations, both during the day and at night. Furthermore, he must provide continuous advisory service to these organizations, and be ready momentarily to drop his direct day-to-day duties within the Bureau structure to assist these citizens groups.

With the advent of modern personnel management, safety courses, supervisory inservice training programs, litter control and other committees, as well as other administrative functions, the need for an Assistant Superintendent has become mandatory for proper functioning of a highly complex operation. The functions and responsibilities of the Bureau of Street Cleaning and Planting have increased tremendously in the last ten years, particularly since the addition of the Planting Division seven years ago. This Division has grown considerably during these years and the administration of its functions is a burden which compounds the need for an Assistant Superintendent in the Bureau of Street Cleaning and Planting.

TABLE I

DEPARTMENT OF PUBLIC WORKS
Bureau of Street Cleaning & Planting

CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA

Annual Report - Gang Sweeping - Fiscal Year 1961-1962

(Sweeping Frequencies For Gang Route Numbered:)

Month	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
1961												
July	1.72	4.20	4.00	3.33	1.33	1.90	2.44	1.66	2.00	2.22	4.00	*
August	2.09	4.60	4.40	4.00	1.27	2.18	3.42	2.00	2.09	2.75	4.60	
September	1.53	4.20	3.80	3.33	1.11	2.22	2.44	1.66	1.80	2.50	3.60	
October	1.69	4.40	3.83	3.66	1.15	2.09	2.62	1.75	1.50	2.87	4.40	
November	1.90	4.40	4.00	3.80	1.10	2.22	3.33	2.00	2.62	2.50	4.20	
December	1.83	4.00	4.20	3.50	1.17	2.00	3.00	2.10	2.50	2.50	4.00	
1962												
January	2.20	4.60	5.00	4.40	1.46	2.44	3.14	2.00	2.44	2.87	4.40	
February	1.72	4.00	5.75	4.00	1.18	2.11	3.16	1.90	2.71	3.00	3.80	
March	2.30	4.40	7.00	4.40	2.20	2.44	3.00	2.44	3.14	3.50	4.40	
April	1.75	4.20	5.00	3.60	2.10	2.33	2.44	1.90	2.33	3.00	4.20	
May	2.20	4.40	4.40	3.00	2.00	2.44	2.20	2.00	2.75	3.14	4.40	
June	2.33	4.20	5.00	2.85	1.46	2.10	2.44	1.90	2.75	2.85	4.20	
Totals	23.26	51.60	56.38	43.87	17.53	26.47	33.63	23.31	28.63	33.70	50.20	

NOTE: Each gang is under supervision of a labor sub-foreman and is composed of 4 to 6 hand-sweepers with a truck crew of 1 chauffeur and 2 laborers. Length of each route varies from 66 to 270 curb-miles.

* Gang #12 is weeding gang.

TABLE 2

DEPARTMENT OF PUBLIC WORKS
Bureau of Street Cleaning & Planting

CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA

Annual Report - Motor Sweeping - Fiscal Year 1961-1962

			DISPOSITION OF 12 SWEEPERS (Hours)				
Month	Curb Miles Swept	Sweeper Loads (Number)	Sweeping	Downtime*	Total Work-Day Hours	Downtime* (Percentage)	Average Number of Sweepers in Operation
1961							
July	4,125	252	1,259	816	2,075	39.30	7.28
August	4,717	283	1,559	757	2,316	32.68	8.08
September	4,426	323	1,410	614	2,024	30.31	8.36
October	4,380	322	1,511	743	2,254	32.95	8.05
November	3,707	260	1,197	919	2,116	43.42	6.79
December	4,186	301	1,334	738	2,072	35.61	7.73
1962							
January	4,494	335	1,422	818	2,240	36.51	7.62
February	3,447	248	1,096	820	1,916	42.78	6.87
**March	4,447	284	1,387	1,037	2,424	42.77	7.44
April	4,406	323	1,414	918	2,332	39.35	7.88
May	4,434	320	1,386	1,022	2,480	42.43	7.48
June	4,394	300	1,461	843	2,304	36.58	8.24
Totals	51,163	3,551	16,436	10,045	26,481	-	-
Averages Per Month	4,263	295	1,369	837	2,206	37.89	7.65

NOTE: *Downtime includes all work-day time that equipment is not engaged in actual street-sweeping; such as when undergoing repairs, held for servicing or for standby.

**New sweeper added. 13 Sweepers as of March 1962.

TABLE 3

DEPARTMENT OF PUBLIC WORKS
Bureau of Street Cleaning & Planting

CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA

Annual Report - Motor Flushing - Fiscal Year 1961-1962

			DISPOSITION OF 10 FLUSHERS (Hours)				
Month	Curb Miles Flushed	No. of Stops for Refilling Water Tanks	Flushing	Downtime*	Total Work-Day Hours	Downtime* (Percentage)	Average Number of Flushers in Operation
1961							
July	5,871	2,911	1,266	378	1,644	22.97	7.70
August	6,686	3,269	1,408	456	1,864	24.45	7.56
September	6,031	2,827	1,216	412	1,628	25.30	7.47
October	6,546	2,941	1,334	450	1,784	25.21	7.48
November	5,907	2,779	1,210	506	1,716	29.47	7.05
December	5,710	2,577	1,154	490	1,644	29.80	7.02
1962							
January	6,616	3,219	1,382	426	1,808	23.55	7.65
February	5,679	2,552	1,136	420	1,556	26.97	7.30
March	6,461	2,920	1,280	512	1,792	28.55	7.14
April	5,090	2,216	1,140	564	1,704	33.08	6.69
May	6,399	2,889	1,276	520	1,796	28.94	7.10
June	6,532	2,956	1,278	418	1,696	24.62	7.53
Total	73,528	34,056	15,080	5,552	20,632	-	-
Averages Per Month	6,127	2,838	1,256	462	1,719	26.90	7.30

NOTE: Each flusher is operated with 1 chauffeur and 1 laborer for handling flushing controls.

*Downtime includes all work-day time that equipment is not engaged in street flushing; such as when undergoing repairs, held for servicing, or standby or when operating on work of different nature.

BUREAU OF STREET CLEANING & PLANTING

Planting Division

This continually expanding division of the Bureau of Street Cleaning and Planting is responsible for the care of the city's landscaped boulevards, traffic islands, freeway interchanges, areas around certain public buildings and the city-planted street trees. The landscaped areas total 137 acres and the city-planted street trees 6,830.

Employments allowed to maintain these areas consist of 24 gardeners, 2 sub-foremen, 2 chauffeurs and a supervisor. During 1962 the division was assigned an additional 5 acres of landscaping and 285 street trees to maintain. Areas recently planted and assigned to the division are Mansell Street and Alemany Boulevard Bayshore Interchange. The division during this year replaced a total of 360 trees, 550 shrubs and 3,800 ground cover plants. The division has recommended the installation of electric timer controls for a number of new irrigation systems as the one on Mansell Street has proved very effective.

Street landscaping in San Francisco is a dual program. The policy of the Department of Public Works is to consider only the major thoroughfares and points of interest for public planting and maintenance. The Department actively encourages and supports street tree planting by property owners, groups and associations. Both phases of this planting program are in a period of acceleration. Contracts for landscaping by the city include areas such as Geary Expressway, Sacramento Street, Van Ness Avenue center islands, Gilman Avenue and Franklin Street.

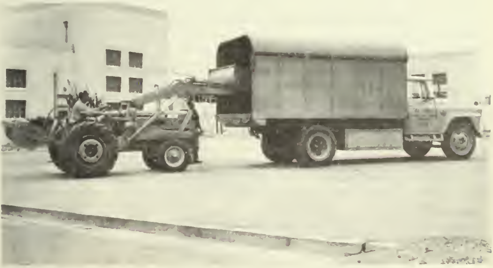
Tree planting by the property owners has become a major program administered by this division. More than 20,000 trees have been planted under this program in the last four years. The Department of Public Works, through the Bureau of Street Cleaning and Planting, encourages street beautification and assists the property owners wherever possible. During 1961-1962 550 permits were processed, approved and issued to property owners. A picture indicating the ideal planting scheme for sidewalk trees may be seen on page 140.

The division actively participates in the Landscape Tree Evaluation Program that is conducted by the University of California at Davis. The Ginkbo biloba and Tristania laurina were the two trees selected and planted during the first year of the program in 1961. The Bronze Loquat and the Osmanthus americanus were the two trees selected and planted in 1962. More than 65 varieties of trees are now being tested.

During 1961-1962 funds were allowed in the budget for a new tractor. This machine is equipped with a loader, auger and scarifier which have proven indispensable in our operations. A picture of this machine may be found on this page.

NEWLY PLANTED
STREET TREE

Showing tree supports, protective screen, brick in basin and deep root watering holes.



NEW TRACTOR - BUREAU OF STREET CLEANING AND PLANTING

The division also has a new and much larger enclosed nursery complete with a propagating bed and a potting bench.

The Street Planting Advisory Committee consisting of seven members continue meeting once a month as advisors to the Department of Public Works in landscaping matters. This group of volunteers has given valuable service to the city for the last six years.

San Francisco Beautiful, an affiliate of the San Francisco Chamber of Commerce, is very active in fostering tree planting by the property owners.

BUREAU OF ACCOUNTS

J. J. McCloskey, Chief Clerk

The Bureau of Accounts continued to perform its principal accounting and bookkeeping activities, consisting of the operation and control of the budgetary and financial transactions for all bureaus of the Department, at about the same level of performance as that of the previous fiscal year. All documents dealing with the appropriation, allocation and disbursement of funds originate in the Bureau which channels them through required procedure until final liquidation.

The personnel of the Bureau as of June 30, 1962 consisted of:

1 - Chief Clerk
5 - Accountant I
3 - Accountant II
1 - Accountant III
2 - Account Clerk
8 - General Clerk
1 - Senior Clerk
2 - Head Clerk
2 - Key Punch Operator
2 - Tabulating Machine Operator
1 - Supervisor, Tabulating Division
5 - General Clerk-Stenographer
6 - General Clerk-Typist
39 - Total

During the year, three employees were added to the Bureau of Accounts to perform accounting and clerical services in connection with the transfer of the engineering functions and personnel of Recreation and Park Department to Public Works Department in accordance with Charter Amendment approved November 8, 1960.

Budget expenditures for operation of the Bureau of Accounts for the fiscal year 1961-62 were as follows:

Permanent Salaries	$179,922
Overtime Allowance	896
Holiday Pay	895
Contractual Services	21,150
Materials and Supplies	3,407
Equipment	810
Services of Other Departments	5,262
	$212,342

BUDGET

The Department's 1961-62 budget and supplemental appropriations as finally approved by the Board of Supervisors amounted to:

GENERAL FUND

Operations and Maintenance	$10,087,768	
Replacements and Reconstruction	151,380	
Improvements	1,816,615	$12,055,763

SPECIAL ROAD IMPROVEMENT FUND

Operations and Maintenance	3,500,648	
Reconstruction	250,000	
Improvements	1,545,200	5,363,569

SPECIAL GAS TAX STREET IMPROVEMENT FUND

Improvements		1,081,000
	TOTAL BUDGET	$18,500,332

PAYROLL DIVISION

For the fiscal year 1961-62, the Payroll and Personnel Division of the Bureau of Accounts prepared and processed a total of 1,427 timerolls involving an expenditure of $11,853,150.36. There was a total of 1,627 authorized permanent employees. Included in this payroll expenditure is a substantial amount for temporary employees. There was a total of 254 requisitions for permanent civil service employees to replace vacancies due to deaths, resignations, transfers, retirements, etc. However, because of difficulty in recruiting civil service employments, it was necessary to employ 846 non-civil service employees for these authorized positions. The inter-relationship of personnel records to the preparation of these payrolls necessitated 2,418 reports to the Department physician of new cases of illness to verify legitimacy of sick pay as required by Ordinance. There were also 215 accident reports filed with the necessary follow-up procedures required which are not included in the reports to the Department physician.

PURCHASING DIVISION

During the fiscal year 1961-62, the Purchasing Division of the Bureau of Accounts processed 7,009 requisitions for purchase orders and/or revolving fund orders in the total amount of approximately $1,730,979.63 involving 31,701 items. Outside purchases from vendors also brought about the issuance of 7,044 delivery orders involving 28,176 items, and 13,506 storeroom tags involving the delivery of 40,518 items, and 136 requisitions on the storekeeper involving 2,040 items.

For the supplying of materials for the varied activities of the Department, a sub-storeroom and a material yard are conducted. Through these means, along with the requisitions for purchase orders and/or revolving fund orders, 26,691 transactions were handled, involving the delivery of 100,759 items to jobs. Stores inventory on hand as of June 30, 1962 amounted to $67,981.38.

ACCOUNTING DIVISION

Financial statements are prepared monthly for each bureau of the Department showing the allowances, encumbrances, expenditures and unencumbered balances for each item in their respective budgets. Reports in detail are prepared frequently during the year for various current projects. Final reports for projects completed from the Special Gas Tax Fund are prepared and forwarded to the State of California, Division of Highways, in accordance with the Streets and Highways Code.

Job costs pertaining to damages to City property under the jurisdiction of the Department are compiled and forwarded to responsible parties for collection. These costs amounted to $14,621.46 for the fiscal year and embraced 396 cases, covering damages to bridges, automotive equipment, street structures, traffic signals, street signs, street trees, traffic devices and prisoner damage to police stations.

The Accounting Section of the Bureau handled the fiscal processing of 193 formal contracts during the year, covering street improvements, sewers, sewage treatment plants, schools, hospitals, firehouses, and various projects for other City departments under programs which are expected to continue into subsequent years, as follows:

	Number of Contracts	Amount
Special Road Improvement Fund	15	$ 541,640.49
Special Gas Tax Street Improvement Fund	8	606,425.82
General Fund - Public Buildings	43	903,700.48
Recreation-Park	20	395,375.00
San Francisco Unified School District	38	638,004.00
1944 Sewer Bond Fund	1	8,415.62
1947 Street Improvement Bond Fund	2	8,438.20
1948 School Bond Fund	1	121,628.38
1952 Firehouse Bond Fund	1	202,657.00
1954 Sewer Bond Fund	9	1,371,930.15
1954 San Francisco Hospital Bond Fund	1	25,347.64
1956 School Bond Fund	30	1,086,826.00
1958 Recreation Bond Fund	1	54,350.00
1959 Civic Auditorium Bond Fund	1	6,623,000.00
1960 Sewer Bond Fund	8	401,990.52
Public Utilities	2	40,752.50
Public Welfare	8	66,668.72
Legion of Honor	1	14,500.00
Department of Electricity	2	7,400.00
Assessment against Private Property	14	111,180.95
Total	206	$13,230,213.47

In addition to the above 97 informal bids were processed, as follows:

Public Buildings	$ 53,609.80
Schools	9,743.00
Recreation-Park	19,344.00
Health Department	16,434.20
Special Road Improvement Fund	2,444.00
Candlestick Park	1,835.00
Miscellaneous	1,718.00
	$105,128.00

BUREAU OF ACCOUNTS

Interdepartmental Service Under Work Order Procedure For:

Schools	$ 738,458.96
Recreation-Park	69,528.44
Maintenance & Repair - Public Buildings	1,114,656.96
Replacement and Reconstruction - Public Buildings	102,828.34
Side Sewer Installations	204,795.58
Capital Improvements	295,675.46
Special Gas Tax	529,739.53
Special Inspection	9,435.78
State Highways	19,798.46
Miscellaneous	53,683.39
Real Property - General City	7,662.51
1947 Street Improvement Bonds	23,228.40
1947 Recreation Bonds	2,942.29
1944 Sewer Bonds	17,505.82
1954 Sewer Bonds	743,757.22
1960 Sewer Bonds	452,059.78
1948 Sewage Treatment Bonds	2,010.62
1948 School Bonds	136,349.05
1956 School Bonds	279,378.72
1954 San Francisco Hospital Bonds	63,691.21
1952 Firehouse Bonds	6,750.81
1954 Exhibit Hall Bonds	6,019.78
1955 Playground and Recreation Center Bonds	19,002.76
1956 Hall of Justice Bonds	91,780.67
1958 Recreation-Park Bonds	60,728.58
1959 Civic Auditorium Bonds	28,708.66
1959 Palace of Fine Arts Bonds	17,983.52
Redevelopment Agency	35,034.55
War Memorial	5,718.09
Art Museum	1,347.30
De Young Museum	5,930.05
Legion of Honor	23,951.00
Engineering	43,557.07
Public Utilities	85.212.45
Publicity and Advertising	13,245.79
Road Fund	545,809.46
Department of Electricity	10,297.17
Street Cleaning - State Highways	47,736.07
Candlestick Park	38,296.21
Sewage and Waste Treatment Plants	10,900.61
Purchasing Department	22,437.04
Public Welfare Department	126,953.02
Steinhart Aquarium	7,586.86
TOTAL INTERDEPARTMENTAL SERVICE	$6,122,173.14

SUMMARY OF TRANSACTIONS

Budgeted Funds, Subject to Control and Appropriated to:

BUREAU	BUDGET 1960-61	BUDGET 1961-62	EXPENDITURES 1960-61	EXPENDITURES 1961-62	
GENERAL FUND					
General Office	189,782	288,225	188,408	280,402	(a)
General Office - Improvements	682,724	1,816,615	327,293	1,623,404	
Architecture	591,979	61,219	576,565	79,817	
Building Inspection	781,092	859,718	764,293	837,536	
Engineering	561,816	697,478	540,177	662,840	
Central Permit	57,421	75,093	56,647	74,437	
Accounts	205,338	215,055	199,143	212,342	
Building Repair	3,102,455	3,028,179	2,083,330	2,718,021	(b)
Traffic Striping	217,860	227,352	216,014	218,938	
Street Cleaning	2,496,237	2,625,254	2,478,666	2,546,084	
Sewer Repair	1,154,802	1,070,603	1,142,994	1,107,656	
Sewage Treatment Plants	1,153,834	1,228,412	1,099,961	1,125,298	
Sewage Pumping Stations	126,595	134,540	124,858	126,421	
SPECIAL ROAD IMPROVEMENT FUND					
Street Repair	1,775,362	1,718,129	1,733,466	1,661,613	
Bridges and Tunnels	180,813	181,878	172,405	172,213	
Street Tree Planting	202,432	223,287	199,217	219,288	
Street Tree Planting - Improvements	23,000	19,400	497	18,596	(c)
Traffic Engineering	548,880	581,475	512,506	539,551	
Traffic Signal Maintenance	335,092	347,308	320,425	329,767	
Engineering Administrative	110,069	121,892	105,110	116,736	
Maintenance and Reconstruction	579,000	276,000	519,988	238,397	(d)
Construction	633,000	1,525,800	1,636,279	659,140	(e)
SPECIAL GAS TAX STREET IMPROVEMENT					
Maintenance	-	368,400	2,527	338,199	(f)
Construction	2,408,500	1,081,000	2,250,953	603,534	(f)
Sub-Total	18,120,083	18,792,312	17,251,722	16,510,230	
Less: Budget Transfers between Bureaus	279,945	291,980	277,076	281,132	
Total	17,840,138	18,500,332	16,974,646	16,229,098	

(a) Expenditures of $77,209 from funds budgeted in prior years.
(b) Expenditures of $35,828 from funds budgeted in prior years.
(c) Expenditures of $17,532 from funds budgeted in prior years.
(d) Expenditures of$172,892 from funds budgeted in prior years.
(e) Expenditures of $623,609 from funds budgeted in prior years.
(f) Expenditures of $521,719 from funds budgeted in prior years.

CENTRAL PERMIT BUREAU

Sidney Franklin, Supervisor

FUNCTIONS

The principal function of the Central Permit Bureau is the issuance of all permits under the jurisdiction of the Department of Public Works, and the collection of the fees required therefor. This includes permits for the erection, alteration, demolition and moving of buildings (as well as the subsidiary permits in connection therewith), permits for all types of billboards and signs, and permits involving the use or excavations of streets and sidewalks. All plumbing, gas appliance and electrical permits are now also issued in this bureau.

It is the duty of the Staff of the Central Permit Bureau to receive applications for these various types of permits, route them for processing, issue the permits when the applications are properly approved, and collect the necessary fees.

The Central Permit Bureau is the custodian of all public records relevant to permits issued by the Department of Public Works, and of all plans and specifications in conjunction with these permits. These records date back to the 1906 Earthquake and are assuming more importance each year in determining the status of buildings affected by our slum clearance program.

Another service performed in this bureau is the assignment of street addresses to all new buildings and the elimination of possible confusion resulting from improper existing numbers. Our official house number records are constantly referred to by realtors, title insurance companies, etc., when the correct street numbers for buildings must be obtained.

It is also the duty of the Central Permit Bureau to render bills for all claims for damages to property under the jurisdiction of the Department of Public Works, and for costs in excess of deposits in the installation of side sewers. The moneys collected from these bills, as well as all other receipts of the department, are cleared through this bureau for deposit in the proper funds in the City Treasury.

PERSONNEL

The personnel of the Central Permit Bureau, as of June 30th, 1962, was as follows:

1 Supervisor
2 Cashiers 2 Senior Clerks
1 General Clerk-Stenographer 5 General Clerk-Typists

THE FOLLOWING TABLES ILLUSTRATE THE SCOPE OF THE ACTIVITIES OF THE

CENTRAL PERMIT BUREAU

TABLE I

PERMITS ISSUED AND FEES RECEIVED

	1961-1962		1960-1961	
	Permits	Fees	Permits	Fees
Buildings	13,754	$ 308,151	12,865	$ 285,785
Billboards	62	224	143	535
Demolitions	405	3,545	432	3,630
Boiler Installations	263	1,520	229	1,132
Boiler Inspections	944	6,465	773	5,868
Street Space *	858	57,701	923	65,955
House Numbers	852	3,357	742	2,796
House Moving	65	1,600	60	1,120
Excavations (Pub. Utilities, etc.)	14,405	28,810	24,231	48,462
Excavations (Excl. of Utilities) *	809	4,099	649	3,344
Flue Registrations	88	1,640	85	1,700
Flues - New Buildings	52	99	49	146
Flues - Old Buildings	182	568	156	590
Flues - New Buildings, Coupons	3,025	1,425	2,825	1,412
Flues - Old Buildings, Coupons	630	1,100	300	600
Posting Notices	773	2,066	693	1,888
Flower Markets	40	1,500	42	1,416
Advertising	30	3,352	15	2,553
Surveys	24	7,890	42	15,460
Engineering Inspections	49	12,015	51	16,145
Electrical Inspections	13,216	202,325	14,926	156,845
Sign Inspections	Included in Elec.Insp.	4,713	Included in Elec.Insp.	4,696
Electrical Sales	2,241	28,411	2,162	22,837
Plan Checking	7,537	87,296	6,046	63,603
Architect's Investigation	84	1,245	65	975

	1961-1962		1960-1961	
	Permits	Fees	Permits	Fees
Garage Door Coupons	975	2,925	1,050	3,150
Hearings for Substitute Materials	21	2,160	19	1,590
Plumbing Inspections	20,873	185,674	16,641	110,808
Gas Appliance Insp.)	Incl. in Plbg. Insp.		Incl. in Plbg. Insp.	
Journeyman Plumber's Lic.)		944		1,378
Gas Appliance Dealer)		590		640
Residential Inspection Reports	24	1,400	23	1,425
Residential Record Reports	5,677	28,325	2,958	14,290
Dump Permits	10	525	7	700
Blasting Permits	10	120	---	---
TOTAL - TABLE I	88,028	993,780	89,220	850,479
TOTAL - TABLES II & III	2,306	4,607,707	2,348	5,786,995
GRAND TOTAL PERMITS & REVENUE	90,334	5,601,487	91,568	5,637,474

* Permits and Fees only.
See Table II for Refundable Deposits

TABLE II

MISCELLANEOUS DEPOSITS

	1961-62		1960-61	
REFUNDABLE DEPOSITS	Permits	Deposits	Permits	Deposits
Street Space	*	$ 21,385	*	$ 17,730
Sub-Sidewalks	14	14,310	2	740
Deposit on Plans	1,539	65,455	1,563	91,910
Excavations	*	871	*	1,096
TOTAL	1,553	102,021	1,563	111,476
PARTIALLY REFUNDABLE DEPOSITS				
Side Sewers	607	330,250	591	285,825
Excess Costs - Side Sewers	48	3,427	64	4,243
AMOUNT REFUNDED		111,900		125,128
Net Revenue applied or to be applied to Installation Costs		221,777		164,940
AGENCY DEPOSITS				
Street Improvement Bonds	98	11,479	130	19,358
TOTAL	2,306	$441,177	2,348	$420,902

* Street Space and Excavations require both a Fee and a Deposit. Amounts shown are Deposits only.

TABLE III

MISCELLANEOUS REVENUE

	1961-1962 REVENUE	1960-1961 REVENUE
General Fund	$ 134,223	$ 170,672
Special Road Improvement Fund	2,973,014	2,931,455
Highway Trust Fund	29,823	20,501
Special Gas Tax - Street Improvement Fund	994,681	2,240,562
1954 Sewer Bond Fund	25,760	508
1952 Fire House Bond Fund		1,588
Refundable Deposit -912.3 Fund		817
Litter Control Fund	55	---
1944 Sewer Bond Fund	810	---
1947 Street Improvement Fund	2,000	---
Palace of Fine Arts Fund	164	
Total	$4,160,530	$5,366,093

TABLE IV

STATEMENT OF CONDITION
SPECIAL FUNDS AS OF JUNE 30, 1962

	Balance June 30, 1961	Deposits 1961-1962	Refunds 1961-1962	Balance June 30, 1962
Special Permit Fund (Street Space and Sub-Sidewalk Deposits)	$31,711.00	$35,695.00	$19,860.00	$47,546.00
Street Improvement Fund	465.27	--	--	465.27
Excavation Fund	2,012.00	871.30	520.50	2,362.80
Deposits on Plans	15,233.00	65,455.00	67,920.00	12,768.00

CASHIER - DEPT. OF PUBLIC WORKS

FOR THE FISCAL YEAR ENDING JUNE 30, 1962

SOURCE OF RECEIPT		
Street Space & Sub-Sidewalk Permits Deposits		$ 35,695.00
Side Sewer Permit Deposits		330,250.00
Deposit on Plans		65,455.00
EXCAVATION PERMITS		
Special Deposits	$ 871.30	
Insp. Fees for Excav. (Special Deposits)	234.50	
" " (Public Utility Corporations)	28,810.00	
" " (Lowering Curbs, etc.)	3,864.00	33,779.80
Fees for Building Permits	308,151.00	
" " Billboard Permits	224.00	
" " Demolition Permits	3,545.00	
" " Boiler Installations	1,520.50	
" " Boiler Inspections	6,465.75	
" " Use of Street Space	57,701.45	
" " House Number Certificates	3,357.00	
" " Residential Inspection Report	1,400.00	
" " House Moving Permits	1,600.00	
" " Residential Record Report	28,325.00	
" " Flue Registrations	1,640.00	
" " Flues - New Buildings	99.00	
" " " - Old Buildings	568.00	
" " " - New Buildings (Coupons)	1,425.00	
" " " - Old Buildings (Coupons)	1,100.00	
" " Posting Notices	2,066.50	
" " Plan Checking	87,296.15	
" " Architects' Investigation	1,245.00	
" " Garage Door Coupons	2,925.00	
" " Variance from Code & Substitute Material	2,160.00	
" " Electric Wiring Inspections	202,271.92	
" " Electric Sign Inspections	4,712.95	
" " Electric Sales	28,411.03	
" " Subpoena, etc.	53.20	
" " Plumbing & Gas Appliance Inspections	185,673.64	
" " Journeyman Plumbers License	944.00	
" " Gas Appliance Dealers	590.00	
" " Sidewalk Flower Markets	1,500.00	936,971.09
Side Sewers - Excess Costs		3,426.68
Advertising Charges		3,352.67
Fees for Dump Permit Applications		525.00
Fees for Blasting Permits		120.00
Payments on Street Improvement Bonds (Ord. of 1934)		11,478.64
Fees for Surveys		7,890.00
Fees for Inspections		12,015.00
MISCELLANEOUS		4,160,531.50
	TOTAL RECEIPTS	$5,601,490.38

DEPOSITS WITH CITY & COUNTY TREASURER

FISCAL YEAR 1961 - 1962

CLASSIFIED BY FUNDS

NATURE OF DEPOSIT			
Refundable Deposits	Acct. 9721-912.1 Excavation Deposits		871.30
	" 9721-912.2 Street Space & Sub Sidewalk		35,695.00
	" 9721-912.3 Side Sewer Deposits		330,250.00
	" 9721-912.4 Deposits on Plans		65,455.00
General Fund	Surveys	$ 7,890.00	
	Inspections	12,015.00	19,905.00
	Excavations (Fees)		32,908.50
	Advertising		3,352.67
	Blasting		120.00
	Dump Applications (Fees)		525.00
Street Improvement Fund (Ord. of 1934)			11,478.64
General Fund			
Excess Costs - Side Sewers		$	3,426.68
Fees - Building Permits		308,151.00	
" Billboard Permits		224.00	
" Demolition Permits		3,545.00	
" Use of Street Space		57,701.45	
" House Number Certificates		3,357.00	
" Residential Inspection Report		1,400.00	
" House Moving Permits		1,600.00	
" Residential Record Report		28,325.00	
" Boiler Installations		1,520.50	
" Boiler Inspections		6,465.75	
" Flue Registrations		1,640.00	
" Flues - New Buildings		99.00	
" " - Old Buildings		568.00	
" " - New Buildings (Coupons)		1,425.00	
" " - Old Buildings (Coupons)		1,100.00	
" Posting Notices		2,066.50	
" Sidewalk Flower Markets		1,500.00	
" Plan Checking		87,296.15	
" Architects' Investigation		1,245.00	
" Garage Doors (Coupons)		2,925.00	
" Variance from Code		2,160.00	
" Electric Wiring Inspections		202,271.92	
" Electric Sign Inspections		4,712.95	
" Electric Sales		28,411.03	
" Subpoenas, etc		53.20	
" Plumbing Inspections & Gas Appliance Inspections		185,673.64	
" Gas Appliance Dealers		590.00	
" Journeyman Plumbers License		944.00	936,971.09
MISCELLANEOUS			
General Fund		$ 134,223.30	
Special Road Improvement Fund		2,973,014.53	
Highway Trust Fund		29,823.05	
Special Gas Tax - Street Improvement Fund		994,681.14	
Litter Control Fund		55.00	
1944 Sewer Bond Fund		810.40	
1954 Sewer Bond Fund		25,759.93	
1947 Street Improvement Fund		2,000.00	
Palace of Fine Arts Fund		164.15	4,160,053.50
TOTAL DEPOSITS WITH CITY & COUNTY TREASURER -			$5,601,490.38

STATEMENT OF CONDITION OF
SPECIAL PERMIT FUND
STREET SPACE & SUB-SIDEWALK PERMITS AS OF JUNE 30, 1962

1961			
July 1	Deposits Outstanding	$	31,711.00
	Receipts: From Street Space Permits		22,435.00
	From Sub-Sidewalk Permits		13,260.00
	Deposits refunded during Fiscal Year 1961-1962		19,860.00
1962			
June 30	Deposits Outstanding		47,546.00

STATEMENT OF CONDITION OF
STREET IMPROVEMENT FUND
(PAYMENTS OF STREET IMPROVEMENT BONDS)
AS OF JUNE 30, 1962

1961		
July 1	Unrefunded Balance	465.27
	Receipts: Payments of Installments & Interest	-
	Payments refunded to Bondholders	-
1962		
June 30	Unrefunded Balance	465.27

STATEMENT OF CONDITION OF
EXCAVATION FUND DEPOSITS
AS OF JUNE 30, 1962

1961		
July 1	Unrefunded Deposits	2,012.00
	Receipts: Special Deposits for Excavations	871.30
	Deposits refunded during Fiscal Year 1961-1962	520.50
1962		
June 30	Deposits Unrefunded	2,362.80

STATEMENT OF CONDITION OF
DEPOSITS ON PLANS FUND
AS OF JUNE 30, 1962

1961			
July 1	Unrefunded Deposits		15,233.00
	Receipts: From Deposits on Plans		65,455.00
	Deposits refunded during Fiscal Year 1961-1962		67,920.00
1962			
June 30	Deposits Unrefunded	$	12,768.00

APPENDIX I

BUREAU OF ENGINEERING CURRENT CONTRACT DATA SUMMARY

Showing All Contract Work Awarded or Underway

July 1, 1961 - June 30, 1962

Table	Type of Construction	No.	Contracts Awarded Aggregate Value	Amount Expended Fiscal Year 1961 - 1962
A	Major Thoroughfares	1	265,354.14	967,515.17
B-1	Streets - Private Contracts	12	86,125.00	366,037.00
B-2	Streets - Assessment Proceedings	13	216,167.13	173,864.35
B-3	Streets - Public Contract City Pay	8	467,551.30	409,630.77
C	Traffic Signals and Channelization	6	138,558.45	99,115.99
D-1	Sewers - Pipe Vitrified, Clay and Concrete	5	400,486.70	485,009.33
D-2	Sewers - Concrete Monolithic	6	1,277,316.00	620,118.42
E	Recreation & Park	31	449,893.50	235,784.85
F	Miscellaneous	26	617,006.64	941,666.55
	TOTALS	108	$3,918,458.86	$4,298,742.43

APPENDIX I

BUREAU OF ENGINEERING CURRENT CONTRACT DATA SUMMARY

On the following pages appear separate tables of Current Contracts for each of the types of construction listed. The source of the funds used to finance each project is indicated in the tables according to the following:

Abbreviation Legend

Legend	Description of Fund
GEN	General Fund City and County
SRd	Special Road Improvement Fund
MS	Major Streets - Special Gas Tax Improvement Fund
AP	Assessment Proceedings - Assessed to Property Benefiting Under the Street Improvement Ordinance of 1934
PPO	Cost Borne by Property Owners Under Private Contract
44SB	Sewer Bond Issue Voted by Citizens November 1944 - $12,000,000
47SIB	Street Improvement Bond Issue Voted by Citizens November 1947 $22,850,000
48STB	Sewage Treatment Bond Issue Voted by Citizens June 1948 $15,000,000
54SB	Sewer Bond Issue Voted by Citizens June 1954 - $12,645,000
60SB	Sewer Bond Issue Voted by Citizens November 1960
47OSP	Off Street Parking Bond Issue Voted by Citizens November 1947 $5,000,000
54LHB	Laguna Honda Bond Issue Voted by Citizens November 1954 $5,475,000
1955 PRCB	Park and Recreation Centers Bond Fund
58-59 Budget	
60-61 Budget	
61-62 Budget	
SGTF	State Gas Tax Fund
DE	Department of Electricity Funds
MR	Municipal Railway Funds
RecP	Recreation Park Department Funds
HJu	Hall of Justice Bond Issue Voted by Citizens June 1956 $19,475,000
WD	Water Department Funds
PGE	Pacific Gas and Electric Company Funds
WP	Western Pacific Funds
SP	Southern Pacific Funds

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 A-MAJOR THOROUGHFARES

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961-1962	FUND
Geary Expressway Underpass at Fillmore Street (Constr.) Chas. L. Harney, Inc.	12- 2-59	2-23-62	$985,518.97	$209,478.97	MS SRd 47SIB 44SB GEN MR
Brotherhood Way (Junipero Serra - Lake Merced) (Re-align Overpass) Chas. L. Harney, Inc.	6-24-60	12- 8-61	179,397.96	49,887.96	54SB MS DE
Geary Expressway (Contr. 3) Masonic-Franklin (Constr.) Chas. L. Harney, Inc.	3-17-61	1- 3-62	897,868.24	708,148.24	MS SRd 44SB 47SIB WD
Webster Street Golden Gate Avenue - Post St. (Widening) Lowrie Paving Co., Inc.	3-28-62	0%	265,354.14	0	MS 44SB 54SB GEN DE WD
Total Awarded and Expended During Fiscal Year			$265,354.14	$967,515.17	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961- 1962 B-1 STREETS, PRIVATE CONTRACTS PAID BY PROPERTY OWNERS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Alder St. - Ankeny 225' N. Harkness The Fay Improvement Co.	Gr	12-19-58	20%	$ 2,000.00
14th Avenue - 100' - 400' N. Rivera A. Malerbi Sand	Gr	8-14-59	0%	5,000.00
Diamond Heights - Redevelopment Area B-1 Guy F. Atkinson	Gr, S, C, P, Ltg, Str, Wall Land	3- 1-60	6-29-62	2,417,297.10
Rolph Street - Crocker-Amazon #3 Gellert Bros.	Gr, S, C, P, Spillway	3-30-60	90%	9,750.00
Rosemary Court - E. 25th Ave., S.Vicente St. T. E. McCormick	Gr, S,C,P,Wall	4-13-60	6-14-61	6,000.00
33rd Avenue (E. Sw) - Noriega Street 93' S Herbst Nor. Prop.	Parking Bay	8-17-60	90%	1,000.00
Stanford Heights Avenue - Los Palmos Drive NE End Gellert Bros.	S,C,P,Spillway	10-28-60	95%	13,000.00
Casitas Avenue - Ludlow Alley - E. End Gellert Bros.	Gr,S,C,P, Ltg	11- 2-60	9-11-61	50,000.00
Alice Griffith Garden Homes Project - S. F. Housing Authority	Gr, S, C, P	11-16-60	75%	140,000.00
*Locksley Avenue - 6th Avenue, Lawton Street Chas. L. Harney, Inc.	C, P	12-21-60	10-13-61	10,000.00
*Tompkins Avenue (N2) - Bronte St. Bradford St. The Fay Improvement Co.	C, S, P	2-15-61	10-17-61	2,600.00

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 B-1 STREETS, PRIVATE
CONTRACTS PAID BY
PROPERTY OWNERS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
South Hill Boulevard - South Canyon Drive Gellert Bros.	Wall	4- 5-61	8-17-61	$ 3,000.00
Bradford Street - Tompkins Avenue 125' N The Fay Improvement Co.	C, S, P	4-19-61	10-17-61	6,100.00
*Allison Street and Watt Avenue - Hanover Street S End Gellert Bros.	C, S, P	5-12-61	11- 7-61	8,000.00
*Ankeny Street (Portions) - Holyoke Street Ordway Street The Fay Improvement Co.	C, S, P	6- 7-61	1-17-62	11,000.00
Locksley Avenue - Lawton Street S End R. F. Galli	Lights	6-23-61	0%	3,000.00
*Oxford Street Bacon Street - Wayland Street - Wayland Street, Oxford Street Cambridge Street The Fay Improvement Co.	C, S, P	6-23-61	80%	15,000.00
*Bradford Street (Portions) - Jarboe Avenue Mojave Street The Fay Improvement Co.	C, S, P	7-12-61	4-24-62	8,250.00
Van Dyke Avenue - Jennings Ingalls The Fay Improvement Co	Gr, C, S, P	9- 6-61	5-22-62	18,000.00
*Patterson Street (Portion) Oakdale N End The Fay Improvement Co.	Gr, C, P	9-20-61	3-14-62	4,300.00
*Pasadena Street - County Line Velasco Avenue Gellert Bros.	Drainage, C, S, P, Wall, Rail	9-22-61	90%	24,800.00
Alpha Street - Tucker Avenue 70' N Pacific Pvts. Co., Ltd.	S	11- 1-61	2-20-62	925.00

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 B-1 STREETS, PRIVATE CONTRACTS PAID BY PROPERTY OWNERS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Los Palmos Drive - N. Side 47' W Foerster St. The Fay Improvement Co.	S	11- 1-61	11- 8-61	$ 150.00
New Street - Ellington Avenue 341' NW Pacific Pvts. Co., Ltd.	Gr, C, S,Drain	11- 2-61	1-26-62	10,400.00
Donner Avenue - Ingalls Street 450' W Arthur Haskins, Inc.	S	1-25-62	4-11-62	8,000.00
Gates Street (E/2) - 200' 250' S of Crescent Arthur Haskins, Inc.	C, S, P	3- 2-62	70%	1,250.00
Berry Street (N/Side) - E of 5th Street Southern Pacific Co.	Culvert	4-21-62	0%	250.00
Campbell Avenue - Somerset Street Alpha Street The Fay Improvement Co.	S	5-16-62	0%	2,000.00
Castro Street - Duncan Street 176' S Pacific Pvts. Co., Ltd.	Gr	5-29-62	0%	7,800.00

Total Awarded During Fiscal Year	$ 86,125.00
Total Value of Work Done During Fiscal Year	$ 366,037.00

S = Sewers; C = Curbs; P = Paving;
Gr = Grading; SW = Sidewalk;
Splwy = Spillway; ltg = Lighting;
Stwy = Stairway

* Remaining Portions Improved Under Public Contract

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 B-2 STREET ASSESSMENT PROCEEDINGS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Olmstead Street - Goettingen St. 120' W Chas. L. Harney, Inc.	Gr, S, C, P	7-13-60	5-22-61	[illegible] (4,5[illegible].7[illegible])
Golden Gate Heights - Contract No. 6 Chas. L. Harney, Inc.	S, C, P	9-21-60	5- 5-61	69,119.[illegible] (30,611.[illegible])
Casitas Avenue - Lansdale Ludlow The Fay Improvement Co.	Gr, C, P	10- 5-60	10- 5-61	5,772.[illegible] (1,999,9[illegible])
*Burnside Avenue (Portions) - Mangels Bosworth Gellert Bros.	Gr, S, C, P	11- 2-60	3-22-61	2,443.99 (1,074.74)
*Locksley Avenue (Portions) - 6th Avenue Lawton Street Chas. L. Harney, Inc.	Gr, C, P	12-21-60	10-13-61	5,362.37 (99.19)
Powhattan Avenue - Wool Moultrie Chas. L. Harney, Inc.	Gr, S, C, P	12-21-60	95%	11,398.8[illegible] (6,700.00)
Delta St. - Hamilton St. - Ankeny St. Hamilton St. - Delta St. - Mansell Set. Ankeny St. - Delta St. 120' E The Fay Improvement Co.	Gr, C, S, P	5-10-61	1-10-62	18,245.2[illegible] (11,8[illegible]2.41)
Ankeny STreet - Intersection Holyoke, Mill Adler The Fay Improvement Co.	Gr, S, C, P	5-10-61	1-17-62	7,[illegible].3[illegible] (1,517.3[illegible])
Armstrong Avenue - Crossing Ingalls The Fay Improvement Co.	Gr, S, C, P	5-10-61	9-22-61	5,91[illegible].[illegible] ([illegible])

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 B-2 STREET ASSESSMENT PROCEEDINGS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Harold Avenue - Grafton Avenue 200' S F. D. Sperry Co.	Gr, C, P	5-10-61	8- 8-61	$ 4,086.81 (1,389.83)
Allison Street and Watt Avenue - Southerly Gellert Bros.	Gr, S, C, P	5-10-61	11- 7-61	6,035.42 (601.54)
Bemis Street - Roanoke Street Mateo Street The Lowrie Paving Co.	Gr, S, C, P	5-19-61	50%	57,017.00
Ankeny Street - Holyoke Street Ordway Street The Fay Improvement Co.	Gr, S, C, P	6- 9-61	1-17-62	5,260.83 (2,158.18)
12th Avenue - Rockridge Drive N Chas. L. Harney, Inc.	Gr, C, P	6-30-61	3-30-62	7,414.61 (4,279.60)
		- - - -		- - - - -
Powhattan Avenue - Moultrie Anderson Kunz Paving Co.	Gr, C, P, W	7- 7-61	11-16-61	5,710.52 (2,413.50)
*Bradford Street (Portions) - Jarboe Avenue Mojave The Fay Improvement Co.	C, S, P, W	7- 7-61	4-24-62	4,503.13 (2,174.25)
Peralta Avenue - Cortland Avenue 210' S E. J. Treacy	Gr, C, S, P	7-26-61	4-23-62	12,233.08 (4,780.98)
Van Dyke Avenue - Jennings Ingalls The Fay Improvement Co.	S	8-30-61	10-25-61	17,064.52 (8,532.26)
*Patterson Street (Portions) Oakdale Avenue N End The Fay Improvement Co.	C, P	9-15-61	3-14-62	2,889.13

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 B-2 STREET ASSESSMENT PROCEEDINGS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
*Pasadena Street (Portion) - County Line Velasco Avenue Gellert Bros.	Gr, C, S, P	9-20-61	90%	$ 1,537.50 (300.00)
Hamerton Avenue - Bosworth Street 100' S De Narde Construction Co.	Strwy - El	10-25-61	3-12-62	10,714.82 (5,357.41)
Velasco Avenue - Santos Street Carrizal St. The Fay Improvement Co.	Gr, C, P, SW	1-31-62	80%	10,344.00 (8,269.45)
Griffith Street - Jamestown Avenue Ingerson Ave. The Fay Improvement Co.	Gr, S, C, P	1-31-62	4-25-62	10,851.43 (3,639.03)
Ingalls St. - Thomas Avenue Yosemite Avenue Wallace Ave. - Ingalls St. 150' E McGuire & Hester	Gr, S, C, P	4- 4-62	0%	107,127.00 (61,900.00)
Palmetto Avenue - Ramsell St. Victoria St. The Lowrie Paving Co.	Gr, S, C, P	4- 4-62	0%	6,413.00 (3,225.80)
10th Avenue - Quintara Mendosa Chas. L. Harney, Inc.	Gr, S, C, P	5-16-62	0%	18,190.00 (13,200.00)
Anderson Street - Powhattan Bernal Heights M. J. Lynch	Gr, S, C, P.	6-20-62	0%	8,589.00 (4,500.00)
Total Awarded During Fiscal Year				$216,167.13
Total Value of Work Done During Fiscal Year				$173,864.35

( ) = Estimated or Final Amount of City Obligation.
Balance Through Assessment of Property Benefited.
City Funds From Special Road Improvement Fund.

* Remaining Portions Improved Under Private Contract

S = Sewers; C = Curbs; P = Paving; Gr = Grading; SW = Sidewalk

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 B-3 STREETS - PUBLIC
CONTRACT - CITY PAY

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 - 1962	FUND
Yale Street (E/2) Wayland Street - 300' S (Curb - Paving) The Fay Improvement Co.	12-28-60	6-20-61	$ 4,970.35	$ 4,970.35	SRd
Tompkins Avenue (S/2) Bronte - Bradford (Construction) The Fay Improvement Co.	2-15-61	10-17-61	2,481.44	2,481.44	SRd
Divisadero Street Lombard St. - Marina Blvd. (Reconstr., Resurf., Ltg.) The Fay Improvement Co.	3-15-61	7-21-61	79,665.75	10,545.75	SRd
Oxford Street (W/2) Bacon St. - Wayland St. Wayland Street (S/2) Oxford St. - Cambridge St. (Construction) The Fay Improvement Co.	6-23-61	10%	13,323.00	0	SRd
Minna Street 4th St. - 5th St. (Reconstruction) Pacific Pavements Co.,Ltd.	4-26-61	2-16-62	2[illegible],795.55	20,795.55	SRd
Gold Street Sansome St. - Montgomery St. (Reconstruction) Pacific Pavements Co.,Ltd.	5-24-61	7-25-61	[illegible].51	313.51	SRd
Harrison Street 16th St. - 19th St. (Reconstruction) Chas. L. Harney, Inc.	7-19-61	5- 4-62	[illegible],[illegible]4.47	56,284.47	SRd
Stevenson Street 3rd St. - 4th St. (Reconstruction) Chas. L. Harney, Inc.	8- 2-61	90%	[illegible],657.58	20,610.00	SRd
Market Street & Other Streets (Resurfacing) L. C. Smith Co.	8-16-61	4- 9-62	120,330.08	120,330.08	MS

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 B-3 STREETS - PUBLIC
CONTRACT - CITY PAY

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 - 1962	FUND
Clay Street Leavenworth - Polk (Reconstr., Repl. Sewer) Chas. L. Harney, Inc.	9-13-61	4-24-62	$ 77,329.43	$ 77,329.43	SRd 47SIB 54SB
Lake Merced Boulevard and Other Streets (Resurfacing) Pacific Pavements Co.,Ltd.	12-13-61	99%	98,344.35	78,300.00	MS
Vandewater Street Powell St. - Mason St. (Pavement Reconstruction) The Fay Improvement Co.	1-10-62	3-29-62	12,720.19	12,720.19	SRd
Steiner Street Grove St. - Hayes St. (Pvt. Reconstruction) Pacific Pavements Co.,Ltd.	4- 4-62	1%	14,109.20	0	SRd
Anza Street and Others (Resurfacing) Bragato Paving Co.	4-11-62	10%	64,776.00	4,950.00	MS
Total Awarded and Expended During Fiscal Year			$ 467,551.30	$409,630.77	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 TRAFFIC SIGNALS AND CHANNELIZATION

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 - 1962	FUND
Portola Drive Teresita - Evelyn Way (Signals & Channelization) Abbett Electric Corp.	2-15-61	8-10-61	$ 16,601.30	$ 16,601.30	SRd
Traffic Signals At Isolated Crossings (Cont. No. 18-Installation) Emsco Electric Corporation	3-15-61	12- 5-61	41,486.43	37,976.43	SRd MS
Monterey Boulevard Near Northgate Drive (Flashing Traffic Beacon) Abbett Electric Corp.	6-26-61	12- 2-61	2,499.00	2,499.00	SRd
Harrison Street 16th Street - 17th Street (Signals) Abbett Electric Corp.	8- 4-61	99%	11,067.55	9,540.00	GEN
Laguna Honda and Dewey Blvds. (Signals and Channelization) Emsco Electric Corp.	9-27-61	12-29-61	11,169.26	11,169.26	MS SRd
Traffic Signals At Isolated Crossings (Cont. No. 19-Installation) R. Flatland Co.	1-17-62	55%	27,824.00	13,770.00	MS
Geary Expressway Contract No. 6 (Traffic Signals) Steiny & Mitchel, Inc.	3-28-62	57%	14,680.00	7,560.00	SRd
Van Ness Avenue & Western Add. Various Locations (Conv. Traffic Sig. Contr.) Emsco Electric Corp.	5-16-62	0%	68,707.64	0	SRd SH
Peralta Avenue York & Hampshire Streets (Modify Traffic Islands) The Fay Improvement Co.	5-31-62	0%	5,110.00	0	SRd
Total Awarded and Expended During Fiscal Year			$ 138,558.45	$ 99,115.99	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 D-1 SEWERS - PIPE
VITRIFIED CLAY
AND CONCRETE

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 - 1962	FUND
North Point Street Broderick - Divisadero (Replace Sewer) The Lowrie Paving Co., Inc.	3-10-61	5-18-61	$ 8,250.10	$ 8,250.10	54SB
Franklin Street & Bay Street Sewer System - Section A (Construction) The Fay Improvement Co.	3-29-61	1- 2-62	295,816.53	228,136.53	54SB
Golden Gate Park Academy of Science - 10th Ave. (Construction) McGuire & Hester	4-19-61	7-21-61	43,710.33	14,010.33	54SB
Bush Street Sewer Baker - Broderick (Replace Sewer) McGuire & Hester	5- 5-61	8- 8-61	15,365.10	15,365.10	54SB
Eddy Street Sewer Octavia - Van Ness (Replace Sewer) The Fay Improvement Co.	5-26-61	9-20-61	48,185.17	48,185.17	54SB 44SB
Guerrero Street 14th St. - 15th St. (Replace Sewer) McGuire & Hester	7-21-61	10- 3-61	15,879.30	15,879.30	54SB
Castro Street 19th St. - 20th St. 20th Street Castro - Hartford (Replace Sewer) McGuire & Hester	8- 4-61	10-24-61	37,588.90	37,588.90	54SB
Wawona Street 24th Ave. - 28th Ave. (Replace Sewer) Dale Williams, Inc.	10-27-61	3-19-62	42,132.60	42,132.60	54SB
Melrose Avenue & Lulu Alley Mangels - Los Palmos (Replace Sewer) William R. Cole	12-20-61	3-30-62	22,271.30	22,271.30	54SB

BUREAU OF ENGINEERING CONTRACTS 1961-1962 D-1 SEWERS - PIPE
VITRIFIED CLAY
AND CONCRETE

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 - 1962	FUND
Vicente Street 33rd Ave. - 34th Ave. Sunset Blvd. - 108' W of 42nd (Construction) The Fay Improvement Co.	3- 7-62	21%	$282,614.60	$ 53,190.00	60 SB
Total Awarded and Expended During Fiscal Year			$400,486.70	$485,009.33	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 D-2 SEWERS - CONCRETE MONOLITHIC

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 - 1962	FUND
N. P. C. S. Section D-4 (Construction) Walter Lenkeit	6-30-60	12-11-61	$300,250.02	$130,970.02	48SB 54SB
N. P. C. S. Section D-8 (Construction) M. J. Lynch	10- 5-60	10-11-61	146,848.40	58,068.40	54SB
N. P. C. S. Sections D-6 & D-7 (construction) Walter Lenkeit	12-21-60	56%	208,637.00	55,440.00	54SB
Division St. Auxiliary Sewer Section A (Construction) M & K Corporation	10- 4-61	76%	540,956.00	361,080.00	54SB 60SB SP WP
N.P.C.S. Section C-1 (Construction) William R. Cole	1-17-62	5%	345,678.00	14,560.00	54SB
McAllister Street Gough St. - Van Ness Ave. (Gunite Lining) Cement Gun Constr. Co.	4- 4-62	0%	11,280.00	0	GEN
N. P. C. S. Section C-2A (Construction) A. C. Bashnick	6-13-62	0%	198,762.00	0	54SB
N.P.C.S. Section C-2B (Construction) M. J. Lynch	6-13-62	0%	168,400.00	0	54SB
Baker Street Bay St. to North Point St. (Gunite Lining) Cement Gun Constr. Co.	6-13-62	0%	12,240.00	0	GEN
Total Awarded and Expended During Fiscal Year			$1,277,316.00	$620,118.42	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 - 1962	FUND
Alamo Square Irrigation Bernard Gayman	8-24-61	1-10-62	$ 18,428.00	$ 18,428.00	1955 PRCB
Arboretum Irrigation and Landscape Development Bernard Gayman	6-14-62	0%	151,500.00	0	Beq. & 55 PRCB
Perimeter and Paddock Fencing Fleishhacker Playfield & Zoo Anchor Post Products	12-21-61	1-10-62	19,833.00	19,833.00	61-62 Budget
Painting of Water Reclamation Plant - Golden Gate Park J. W. Sorensen, Inc.	8-10-61	1- 3-62	2,135.00	2,135.00	60-61 Budget
Resurfacing of Existing Paved Areas and Painting of Court Lines at Helen Wills Playground Malott-Peterson Grundy	8-10-61	9-18-61	3,978.00	3,978.00	1955 PRCB
Music Concourse Drainage Corrections-Golden Gate Park Associated Pipeline, Inc.	8-24-61	11-30-61	7,700.00	7,700.00	60-61 Budget
Sheet Metal Enclosure of Light Towers at Kezar Stadium Valley Sheet Metal	8-16-61	11-16-61	1,642.00	1,642.00	60-61 Budget
Installation of Water Storage Tank - Camp Mather Elmer G. Shaw	10-11-61	12- 1-61	11,175.00	11,175.00	61-62 Budget
Replacement of Portions of Roads & Paths at Zoological Gardens Malott-Peterson Grundy	12- 4-61	3-14-62	11,692.50	11,692.50	61-62 Budget
Midtown Terrace Playground on Mt. Sutro Reservoir Roof Slab Martinelli Construction	2- 8-62	97%	63,045.00	61,155.35	60-61 Budget
Resurfacing and Painting of Court Lines at Golden Gate Park Tennis Courts Malott-Peterson Grundy	12-21-61	91%	20,947.00	19,000.00	60-61 61-62 Budget

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 - 1962	FUND
Replacement of Chain Link Fencing - Golden Gate Park Nursery Cyclone Fence Department U. S. Steel	2-21-62	4-18-62	$ 5,689.00	$ 5,689.00	61-62 Budget
Resurfacing and Painting of Court Lines at McCoppin Sq. Malott-Peterson Grundy	2-28-62	90%	5,979.00	5,979.00	61-62 Budget
Golden Gate Park Conservatory Installation of Catwalk Around Dome Michel & Pfeffer Iron Wks.	3-22-62	45%	9,965.00	4,500.00	60-61 Budget
Fleishhacker - Continue Replacement of Walks Lowrie Paving Co., Inc.	2-28-62	4- 6-62	8,787.00	8,787.00	61-62 Budget
Golden Gate Park Rehabilitation of Running Track Ben Bearse Co.	3-22-62	85%	3,857.00	3,278.00	61-62 Budget
Rehabilitation of Cages & Paddock Fencing at San Francisco Zoo Realock Fence	4-11-62	0%	5,350.00	0	61-62 Budget
Douglas Playground Potrero Hill Playground & Lincoln Park Rehabilitation of Convenience Stations Wilner Construction Co.	5-10-62	60%	10,387.00	5,300.00	61-62 Budget
Irrigation System for Lafayette Square Sacramento Irrigation Engineers	5-10-62	29%	17,497.00	5,070.00	1955 PRCB
Conservatory at Golden Gate Park Painting and Glazing Manor Painters	6-20-62	0%	17,183.00	0	61-62 Budget
Sharp Park Golf Course Replacement of Portion of 24-Inch Outfall Line Associated Pipe Line, Inc.	5-10-62	0%	10,387.00	5,300.00	61-62 Budget

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 - 1962	FUND
Modification of Irrigation System & Other Miscellaneous Work at Balboa Park Wm. McIntosh & Son	5- 2-62	95%	$ 36,927.00	$ 35,000.00	SGTF
Harding Park Golf Course Relocation of Dolphin Shed Hanson Bros.	12- 4-61	1-22-62	1,245.00	1,245.00	61-62 Budget
Lake Merced Sailing Site Installation of Irrigation Laterals & Drinking Fountain A. & J Shooter, Inc.	1-11-62	3-13-62	744.00	744.00	1955 PRCB
Mission Playground Replacement of Chain Link Fencing Cyclone Fence Division U. S. Steel Corporation	2- 8-62	3-28-62	689.00	689.00	61-62 Budget
Mission Playground - Installation of Hangers For Existing Light Fixtures Elec. Constr. & Sales Co.	2- 8-62	0%	1,585.00	0	61-62 Budget
Franklin Square Replacement of Irrigation Main Bernard Gayman	4-11-62	5-14-62	1,484.00	1,484.00	61-62 Budget
Kezar Stadium - Servicing of Floodlight Transformers West Coast Electric Co.	4-11-62	0%	1,790.00	0	61-62 Budget
Funston Playground - Servicing of Floodlight Transformers Emsco Electric Co.	4-11-62	0%	1,424.00	0	61-62 Budget
Golden Gate Park Conservatory Installation of Add'l Ladder Rail Michel & Pfeffer Iron Wks.	5-31-62	0%	1,606.00	0	60-61 Budget
Marina Yacht Harbor - Removal of Underwater Spur At the Entrance Healy Tibbits	7-31-61	8-28-61	1,860.00	1,860.00	58-59 Budget
Contracts Awarded - Aggregate Value			$449,893.50		
Amount Expended Fiscal Year 1961-1962				$235,784.85	

BUREAU OF ENGINEERING CONTRACTS 1961-1962 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 - 1962	FUND
Mission Street Otis, McCoppin, 12th, etc. (Street Lights) Abbett Electric Corp.	9-21-60	9-22-61	$31,281.95	$ 12,241.95	SRd
Lakeshore, Marina, Hyde, Commercial Pump Stations (Elim. Cross-Conn.) Bureau of Building Repair	11-30-60	6-30-62	16,892.54	16,892.54	54SB
City Hall - S.E. Quadrant (Plumbing) Jesse M. Lumsden	12-21-60	7-24-61	20,145.59	2,595.59	GEN
S. F. County Jail No. 2 (Heating System) Robt. M. Johnson & Sons	12-28-60	9-20-61	7,601.40	1,661.40	GEN
Hall of Justice General Parking Lot (Construction) Chas. L. Harney, Inc.	1-13-61	8-17-61	82,529.00	15,659.00	HJ
Golden Gate Valley Br. Library (Repl. Lighting Fixtures) Bureau of Building Repair	3-29-61	10- 2-61	5,185.41	5,185.41	GEN
Mansell Street San Bruno - University Ave. (Landscaping) Watkins & Sibbald	4- 7-61	1-18-62	35,437.38	34,267.38	SRd
Digestor Group No. 1 S. E. S. T. P. (Revise Piping) C. Norman Petersen, Inc.	5-26-61	1-12-62	163,576.40	163,576.40	60SB
S. E. S. T. P. - Sludge Storage Hopper (Construction) Brady Constructors	5-26-61	5-11-62	50,116.43	50,116.43	54SB
Kearny St. Retaining Wall near Chestnut Street (Construction) Ben Bearse Co.	6-2-61	9- 8-61	1,874.00	1,874.00	SRd
Steinhart Aquarium Salt Water Collector (Construction) Ranney Method Western	6-14-61	11- 2-61	79,250.00	79,250.00	RecP

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 - 1962	FUND
Voting Machine Warehouse Lighting System (Install) Coopman Electric Co.	6-14-61	8-23-61	$ 4,585.00	$ 4,585.00	GEN
Laguna Honda Home - Replace Piping (Alter Refrig. System) Western Plumbing Co.	6-23-61	2-28-62	71,826.10	71,826.10	GEN
Youth Guidance Center Boys' Clinic (Install Ventil. Facil.) Alladin Htg. & Vent. Co.	6-23-61	3-23-62	1,387.00	1,387.00	GEN
Candlestick Park - Addtl. Gates (Construction) Cyclone Fence U.S. Steel	6-16-61	9- 5-61	906.00	906.00	RecP
City Hall Assessor's Office Ventilating System (Install) Colan Htg. & Vent. Co.	6-23-61	10-20-61	7,826.00	7,826.00	GEN
Kezar Stadium Scoreboard (Electric Serv.) Golden Gate Electric Co.	7-28-61	8-16-61	3,450.00	3,450.00	GEN
Van Ness Avenue McAllister - Grove (Landscaping) Paradise Engr. Constr.,Inc.	9-15-61	3- 8-62	9,721.00	9,721.00	SRd
S.F. Hospital Power Plant Chimney (Repair) Emsco Electric Corp.	9-22-61	12-14-61	7,737.00	7,737.00	GEN
Fire Alarm Systems Various Schools (Install.) Emsco Electric Corp.	10- 4-61	99%	144,327.85	144,327.85	ED
St. Germain Avenue Ret. Wall E of Glenbrook (Drain Fac.) Chas. L. Harney, Inc.	10-20-61	3-23-62	3,789.82	3,789.82	SRd
Granville Way - Adjacent to Portola Drive (Fence) U. S. Steel Corporation	10-20-61	1-19-62	313.00	313.00	SRd

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 - 1962	FUND
Parnassus Avenue Underground District No. 161 (Install El. Fac.) West Coast Electric Co.	11-17-61	5-31-62	$ 13,673.60	$ 13,673.60	SRd DE
St. Germain Avenue Wall E of Glenbrook (Underpin) Case Foundation Co.	11-17-61	1-31-62	2,069.00	2,069.00	MS
Golden Gate Park - N Mill Pump Station (Repl. Starter) Enterprise Electric Works	11-17-61	3-1-62	4,194.00	4,194.00	GEN
Clarendon Avenue Ped. Overpass S of Panorama Drive (Construction) Chas. L. Harney, Inc.	11-27-61	3-16-62	48,726.00	48,726.00	MS
N. P. S. T. P. - Sludge, Grease & Scum Pump Fac. (Improve) C. Norman Peterson, Inc.	12-13-61	3-30-62	17,727.00	17,727.00	60SB
4th Street Pump Station - Sand Pump Facil. (Install) S & Q Construction Co.	12-20-61	5-29-62	22,257.00	22,257.00	54SB
City College Men's Gym Service Entrance (Replace) Brayer Electric Co.	12-15-61	2- 9-62	1,275.00	1,275.00	GEN
Geary Expressway Contract No. 5 (Landscaping) Paradise Engr. Constr. Co.	1-24-62	90%	7,020.87	5,040.00	47SIB
Clarendon Avenue Underground District No. 157 (Str. Lts. & Fire Alarm) R. Flatland Co.	1-24-62	6-22-62	16,522.53	16,522.53	SRd DE
Baker Street Beach Street - Yacht Harbor (Extend AWSS) Associated Pipeline, Inc.	12-22-61	4-30-62	38,797.55	38,797.55	GEN
Steinhart Aquarium Salt Water Supply System (Construction) R. B. McNair Sons	1-31-62	86%	107,311.00	83,250.00	RecP

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1961-1962 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1961 1962	FUND
"Path of Gold" Poles on Market Street (Rehabil.) Abbett Electric Corp.	1-31-62	23%	$ 71,335.00	$ 14,400.00	MR PGE SR
S. E. S. T. P. 22" Waste Return Piping (Improv.) C. Norman Peterson	2-14-62	92%	13,575.10	11,970.00	60SB
City Hall SW Quadrant (Replace Piping) Jesse M. Lumsden	2-21-62	92%	12,018.00	9,720.00	BR
Filbert Street Montgomery St. - Sansome St. (Extend AWSS) Mitchell Plumbing Co.	3-7-62	0%	26,161.32	0	GEN
Arthur Avenue Outfall Sewer (Test Borings) P & Z Co., Inc.	3-7-62	5-24-62	3,556.00	3,556.00	60 SB
Laguna Honda Home Washing Machines (Install) Western Plumbing & Htg. Co.	4-11-62	14%	32,012.00	4,140.00	GEN
Air Raid Sirens at Various Locations (Removal) Bigge Crane & Rigging Co.	4-25-62	6-11-62	2,910.00	2,190.00	GEN
Golden Gate Park Crossover Dr. Drainage Fac. (Constr.) Associated Pipeline, Inc.	5- 2-62	0%	3,700.00	0	GEN
Bridgeview Drive and Newhall Street Gore Corner (Fence and Landscape) F & J Shooter, Inc.	5- 2-62	90%	2,827.00	2,250.00	SRd
Total Awarded and Expended During Fiscal Year			$617,006.64	$941,666.55	

BUREAU OF ARCHITECTURE
CURRENT CONTRACT DATA SUMMARY
Showing All Contract Work Awarded or Under Construction
July 1, 1961 - June 30, 1962

Table	Type of Construction	Contracts No.	Awarded Aggregate Value	Amount Expended Fiscal Year 1961-1962
A-1	New School Construction	0	$ 0	$ 6,106,904.00
A-2	Misc. Alterations- Schools	52	1,405,491.00	1,395,878.00
A-3	Acoustical Jobs "	0	0	591.00
A-4	Roofing Jobs "	3	10,844.00	19,868.00
A-5	Resilient Floors "	0	0	0
A-6	Int. & Ext. Painting "	14	211,435.00	164,205.00
A-7	Yard Paving "	4	78,489.00	38,743.00
B-1	Fire Dept. New Construction	2	438,675.00	206,238.00
C-1	S.F. General Hospital	10	241,566.00	416,890.00
C-2	Laguna Honda Home	7	47,098.00	171,393.00
C-3	Health Center Bldg.	1	3,340.00	3,340.00
D-	M.H. de Young Memorial Museum	3	2,773.00	1,648.00
E-	Youth Guidance Center	4	10,427.00	105,917.00
F-	Civic Center	7	170,908.00	161,212.00
G-	Hall of Justice	6	9,745.00	714,420.00
H-	Miscellaneous	25	6,786,700.00	786,296.00
	Totals	138	$9,417,491.00	$10,293,543.00

On the following pages appear separate tables of current contracts for each of the types of construction listed above. The source of the funds used to finance each project is indicated in the tables according to the following:

Abbreviation Legend

Designation	Description of Fund
General	General Fund City and County
1956 School	Unified School District Bond Issue voted by citizens on November 6, 1956, $27,000,000.

District	Funds of S.F. Unified School District
Real Property Fund	Real property fund of the S. F. Fire Department
1952 Fire	Fire Department, Bond Issue voted by citizens on November 4, 1952, $4,750,000.
1954 Hospital	Hospital Bond Issue voted by citizens on November 2, 1954 $5,830,000.
Def. Maintenance	Deferred Maintenance funds, Laguna Honda Home annual budget
1954 Ex. Hall	Civic Center Exhibit Hall bond issue voted by citizens on November 2, 1954 $3,275,000.
1958 Rec. Park	Recreation and Park Bond issue voted by citizens on June 3, 1958
1960 Auditorium	Civic Auditorium Bond Issue voted by citizens November 3, 1959 $7,575,000.
1956 H of J	Hall of Justice Bond Issue voted by citizens June 5, 1956 $19,475,000.
Maint. and Repair	Annual Budget items

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
A-1 NEW SCHOOL CONSTRUCTION					
Southwest Sr. HS (1849) General Construction Pacific Coast Builders	6-24-60	89%	$ 4,081,150	$ 1,695,705	1956 School
Clarendon School (1895) General Construction Cahill Construction Co.	8-26-60	1-24-62	848,849	339,540	1956 School
J. Denman HS Auditorium General Construction (1747R) Hart & Hynding, Inc.	8- 5-60	3-16-62	455,183	218,488	1956 School
J. Ortega Elem. School (1908) General Construction S. J. Amoroso Const.Co.	11-4-60	5- 9-62	608,690	395,649	1956 School
Southeast Sr. HS (1916) General Construction M & K Corporation	12-2-60	74%	4,324,000	2,691,720	1956 School
Jefferson Elem. School (1924) General Construction Jos. Bettancourt	12-16-60	77%	707,750	431,727	1956 School
Golden Gate Elem. School General Construction (1950) Jos. Bettancourt	2- 15-61	71%	575,000	334,075	1956 School
Total Awarded and Expended During Fiscal Year			0	$6,106,904	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Ex Expended 1961-1962	Fund
A-2 MISCELLANEOUS ALTERATIONS					
City College (1947) New Elec. Laboratory H.E. Rahlmann Co.	2-10-61	4-5-62	$ 35,343	$ 21,559	District
A. P. Giannini Jr. HS (1959) Alt. to Science Rooms Stenmark Const. Co.	4 -7-61	8-18-61	4,693	4,693	District
Board of Education (1970) Replacement of Doors Nourse Auditorium Bureau of Bldg. Repair	4 -7-61	9-15-61	901	676	District
City College (1976) Maintenance & Repair-Gyms John A. Nelson, Inc.	4-21-61	10-3-61	43,133	40,114	District
B. Franklin Adult School Instal. of New Floor Covering (1980) Malott & Peterson-Grundy	4-21-61	8-11-61	8,487	5,940	District
Polytechnic HS (1983) Instal. of Dry Standpipe Bureau of Bldg. Repair	5- 3-61	12-15-61	2,415	1,449	1956 School
Various Schools (1985) Instal. of Wire Glass & Laminated Panels Arthur Baum	5- 3-61	10-3- 61	11,407	11,407	1956 School

A. Lincoln HS & Everett Jr. HS (1974) Garbage Can Washers Robert L. Sage	5-12-61	8-25-61	$ 2,121	$ 2,121	District
Yerba Buena School (1969) Window Replacement Arthur W. Baum	5-12-61	8-18-61	17,268	17,268	District
McKinley & Sheridan Schools (1960) Alterations to Toilet areas Stenmark Const. Co.	5-19-61	1-18-62	49,377	49,377	1956 School
J. Lick Jr. HS (1939) Alt. to 2nd Floor for New Homemaking Rooms De Narde Const. Co.	5-19-61	12-15-61	66,855	53,484	1956 School
Polytechnic HS Academic Bldg. (1972) Reconstruction of metal stairs Wm. McIntosh & Son	5-19-61	8-28-61	19,799	19,403	1956 School
Various Schools (1987) Series #1 - Installation of new doors & lam. panels Stenmark Const. Co.	5-19-61	11-3-61	33,245	33,245	1956 School
Argonne & Marshall schools (1988) Instal. of auto. fire sprinklers Security Fire Protec.Co.	5-19-61	11-10-61	27,802	27,802	1956 School

CURRENT CONTRACT DATA 1961-1962

Deecription & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
A-2 MISCELLANEOUS ALTERATIONS (cont.)					
Polytechnic HS (1971) Int. alt. of Academic Bldg. Wm. McIntosh & Son	5-24-61	12-13-61	$ 188,888	$ 181,332	1956 School
Fairmount School (1963) Conversion of Woodshop to Classrooms Noel A. O'Reilly	5-25-61	10-26-61	15,935	15,935	1956 School
Various Schools (1992) Instal. of Doors and panels John A. Nelson, Inc.	6- 9-61	12- 8-61	35,600	35,600	1956 School
Guadalupe School (1994) Window replacement & painting Wilco Const. Co.	6- 9-61	11-15-61	50,600	50,600	District
Various Schools (2002) Instal. of doors & panels Wm. McIntosh & Son	6-23-61	12-28-61	101,587	101,587	1956 School
Emerson School (1984) Additional play yard Pacific Pavements Co. Inc.	6-23-61	11- 5-61	20,900	20,900	1956 School
Various Schools (2004) Repair & paint metal stairs De Narde Const. Co.	6-26-61	9-18-61	15,510	15,510	District

Presidio JHS (2005) Alt. to Dishwashing area H. E. Rahlmann Co.	6-26-61	10-6-61	$ 4,868	$ 4,868	District
Various Schools (2009) Instal. of fire sprinklers Allan Auto.Sprinkler Corp.	6-28-61	12-5-61	43,875	43,875	1956 School
F. McCoppin & West Portal schools Floor repairs (2012) H.E. Rahlmann Co.	6-30-61	11-2-61	5,657	5,657	District
Various Nursery & School-age Centers (2008-R) Ceramic tile floors Superior Tile Co.	7-12-61	10-10-61	4,991	4,991	District
Various Schools (2011) Auto.fire sprinklers Grinnell Co.of Pacific	7-14-61	1-3-62	31,113	31,113	1956 School
Various Schools (2014) Doors & panels- Series 4 Stenmark Const.Co	7-14-61	5-31-62	79,610	79,610	1956 School
Various Schools (2017) Auto.fire sprinklers A & B LaDew Engineering	7-21-61	12-12-61	29,875	29,875	1956 School
Various Schools (2013) Auto.fire sprinklers Automatic Sprinkler Corp.	8-11-61	4-13-62	39,550	39,550	1956 School
Various Schools (2021) Doors & panels- Series 5 John A. Nelson,Inc.	8-11-61	5-12-62	81,444	81,444	1956 School

CURRENT CONTRACT DATE 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
A-2 MISCELLANEOUS ALTERATIONS (cont.)					
Various Schools (2019) Wire mesh enclosures Anchor Post Products, Inc.	8-11-61	12-4-61	$ 3,875	$ 3,875	District
Portable Classrooms (2018) Ulloa to Lincoln-Burbank-J. Lick DeNarde Const. Co.	8-18-61	11-27-61	37,459	37,459	District
Various Schools (2027) New yard benches & repairs to existing benches De Narde Const.Co.	8-18-61	11-3-61	8,632	8,632	District
Portable Classrooms (2022) Lawton to Marina School H. E. Rahlmann Co.	8-23-61	10-25-61	8,257	8,257	District
Gompers School (2015) New Photo-engraving Lab. Stenmark Const. Co.	9- 8-61	4-13-62	26,204	26,204	District
City College (2046) Painting & Acoustical work Western Asbestos Co.	9- 29-61	1-18-62	1,235	1,235	District
Various Schools (2030) Doors & Panels, Series 6 Stenmark Const. Co.	10-13-61	6-8-62	77,578	77,578	1956 School
Raphael Weill School (2051) Smoke barriers Stenmark Const. Co.	10-27-61	4-5-62	10,658	10,658	1956 School

Various Schools (2041) Auto. Fire Sprinklers C-4 A & B La Dew Engineering Co.	10-27-61	5-31-62	$ 38,685	$ 38,685	1956 School
I. M. Scott School (2059) Sir Francis Drake Annex Fence repairs H. E. Rahlmann Co.	11-10-61	3-16-62	6,829	6,829	District
Spring Valley & Sarah Cooper Schools (2061) Smoke Barriers Stenmark Const. Co.	11-10-61	6- 6-62	10,175	10,175	1956 School
Various Schools (2053) Auto. Fire Sprinklers C-1 Allan Auto. Sprinkler Corp.	12-8-61	99%	46,490	46,025	1956 School
John Muir School (2058) Smoke barriers Stenmark Const.Co.	12-8-61	5- 9-62	7,737	7,737	1956 School
Emerson School (2063) Smoke barriers Stenmark Const. Co.	12-22-61	5-16-62	8,919	8,919	1956 School
Various Schools (2067) Auto Fire sprinklers C-2 Grinnell Co. of Pacific	1- 12-62	6-22-62	47,986	47,986	1956 School
Sherman School (2073) Smoke barriers Stenmark Const. Co.	1- 12-62	75%	8,094	6,070	1956 School
Various Schools (2068) Auto Fire Sprinklers A & B LaDew Engr.,Inc.	1- 31-62	48%	47,895	22,990	1956 School

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
A-2 MISCELLANEOUS ALTERATIONS (cont.)					
Marshall School Annex (2076) Floor repairs & painting Wm. McIntosh & Son	2-14-62	4-17-62	$ 5,259	$ 5,259	District
Galileo HS (2080) Bleacher seats Ben Bearse	2-21-62	3%	9,685	291	District
Various Schools (2081) Mesh wire & wood fence repair Cyclone Fence	2-21-62	6-30-62	5,816	5,816	District
J. Lick Jr. HS (2066) New doors & smoke barriers Stenmark Const. Co.	2-21-62	25%	38,576	9,644	1956 School
Northridge & Laguna-Golden Gate Nurseries Fence repairs (2072) H. E. Rahlmann Co.	3- 7-62	95%	4,027	3,826	District
Balboa HS (2071) Alt. for fire safety Stenmark Const. Co.	3- 21-62	5%	79,572	3,979	1956 School
Various Schools (2069) Smoke barriers Stenmark Const. Co.	3- 21-62	4%	15,558	622	1956 School
Roosevelt Jr. HS (2085) New partition- Rm. 143 H.E. Rahlmann Co.	3- 21-62	5-16-62	687	687	District

Geo. Peabody School (2078) Rehabilitation, toilet areas Wm. McIntosh & Son	4- 4-62	7%	$ 29,118	$ 2,038	District
Various schools (2084) Auto fire sprinklers Grinnell Co. of Pacific	4- 4-62	5%	54,693	2,735	1956 School
Aptos Jr. High (2087) New doors & smoke barriers Wm. McIntosh & Son	4-13-62	6%	51,312	3,079	1956 School
Francisco Jr. HS (2107) Misc. Alter. & repairs H. E. Rahlmann Co.	4- 25-62	7%	10,181	713	District
Various schools (2077-R) Add. & mod. to fire alarm system Emil Weber Elec. Co.	4- 25-62	55%	17,853	9,819	1956 School
Portola Jr. HS (2075) New doors & smoke barriers Wilco Const. Co.	4- 25-62	15%	32,400	4,860	1956 School
Jean Parker School (2095) Toilet areas & misc. work Wm. McIntosh & Son	5- 2-62	15%	17,930	2,680	District
Polytechnic HS (2106) Misc. repair work Wilco Const. Co.	5- 2-62	20%	39,840	7,968	District
Sarah B. Cooper School (2119) Repairs to Ext. entrances Wm. McIntosh & Son	5-16-62	50%	3,384	1,692	District

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
A-2 MISCELLANEOUS ALTERATIONS (cont.)					
Golden Gate & J. Swett Schools Fire sprinklers (2108) Approved Auto.Sprinkler Co.	5-16-62	5%	$ 45,990	$ 2,299	1956 School
Various Schools (2120) Reglazing & misc. fire safety work Stenmark Const. Co.	5-16-62	0	13,458	0	1956 School
G.Washington HS (2114-R) Lighting fixtures for Library Abbett Electric Corp.	5-31-62	0	3,300	0	District
Portola Jr HS & Redding School Fire alarm systems (2112-R) Abbett Electric Corp.	5-31-62	5%	11,444	572	District
B. Franklin Jr. HS (2115) Auto. Fire Sprinklers Bernard Engrs. Co.	5-31-62	0	67,510	0	1956 School
H. Mann Jr. HS (2110) Doors & smoke barriers Stenmark Const. Co.	6-20-62	0	27,000	0	1956 School
A. Lincoln HS (2139) Retaining wall & fence repair H. E. Rahlmann Co.	6-27-62	0	8,156	0	District

Central Jr. HS (2137) Interior Alterations Stenmark Const. Co.	6-27-62	0	$ 17,417	0	1956 School
Polytechnic HS (2105) Int. & ext. alterations for fire safety Stenmark Const. Co.	6-27-62	0	27,792	0	1956 School
J. Denman Jr. HS (2138) New gas service & related work H. E. Rahlmann Co.	6-27-62	0	3,548	0	District
F. Burk to Bd. of Education Warehouse Portable classroom (2091-R) De Narde Construction Co.	6-27-62	0	1,934	0	District
Portola Jr. HS (2094) Window replacement, painting, and general repair Arntz Construction Co.	6-27-62	0	98,760	0	District
Total Awarded and Expended During Fiscal Year			$1,405,491	$1,395,878	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
A-3 ACOUSTICAL JOBS					
Jas. Lick Jr. HS (1986) Acoustical tile Fiberglas Eng. & Supply Corp.	5-12-61	7-14-61	$ 5,915	$ 591	District
Total Awarded and Expended During Fiscal Year			$ 0	$ 591	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
A-4 ROOFING JOBS					
Various Schools (2003) Resurfacing roof decks Malott & Peterson-Grundy	6-26-61	8-18-61	$ 17,787	$ 17,787	District
B. Franklin Adult School Partial re-roofing (2016) Regal Roofing Co.	7-12-61	10-24-61	1,666	1,666	District
E. Robeson Taylor School Roof tile repairs (2024) Wm. J. Anderson Roof.Co.	8-11-61	10-17-61	415	415	District
Various Schools (2151) Re-roofing & misc. work Bender Roofing, Inc.	5-31-62	0	8,763	0	District
Total Awarded and Expended During Fiscal Year			$ 10,844	$ 19,868	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
A-6 INTERIOR &/OR EXTERIOR PAINTING					
Andrew Jackson School Painting (1968) New Method Paint. & Dec.Co.	3-10-61	7-27-61	$ 10,112	$ 5,562	District
Anza Elem. School (1973) Painting J. Wm. Sorensen	4-7-61	8-28-61	10,000	6,666	District
Various Child Care Centers Painting (1978) Manor Painters	4-21-61	8- 9-61	3,428	3,428	District
Jas. Lick Jr. HS (1975) Painting Robert Thompson	5-12-61	9-29-61	37,300	27,975	District
Com. Stockton School Painting (1989) Atlas Painting Co.	5-19-61	9-6-61	5,816.	2,908	District
E. R. Taylor School Painting (1990) A. Quandt & Sons, Inc.	5-19-61	8-29-61	10,468	10,154	District
Bayview School (1995) Painting W. G. Thompson	5-24-61	8-25-61	11,870	11,514	District
West Portal School Painting (1996) Phoenix Painting Co.	5-24-61	8-28-61	13,290	13,290	District

Various Schools (1997) Painting Robt. Thompson	6- 9-61	9- 8-61	$ 8,400	$ 6,300	District
Sunnyside School (1998) Painting Robt. Thompson	6- 9-61	10-3-61	9,344	9,344	District
Various Schools (2007) Painting Game Lines Riley's Striping Service	6-26-61	9-21-62	2,310	2,310	District
Gough School (2096) Painting Robt. Thompson	4- 4-62	50%	4,840	2,420	District
Polytechnic HS (2093) Painting Martin Fried, Inc.	4- 4-62	40%	48,140	19,256	District
Francisco Jr. HS (2097) Ext. Painting J. W. Sorensen, Inc.	4- 4-62	75%	15,594	11,696	District
Argonne School (2098) Ext. Painting J. Wm. Sorensen, Inc.	4-13-62	12%	7,653	918	District
Fairmount Elem. School Ext. Painting (2099) A. Quandt & Sons, Inc.	4-25-62	12%	7,400	888	District
Grant School (2101) Painting Atlas Painting Co.	4-25-62	10%	9,777	978	District

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
A-6 INTERIOR &/OR EXTERIOR PAINTING					
John McLaren School (2111) Painting Atlas Paint. Co.	4-25-62	60%	$ 8,633	$ 5,180	District
Golden Gate School (2113) Painting Veterans Paint. Co.	5- 2-62	30%	20,990	6,297	District
Everett Jr. HS (2118) Painting Atlas Painting Co.	5-16-62	46%	37,219	17,121	District
Lowell HS (2122) Painting D. Zelinsky & Sons	5-16-62	0	18,822	0	District
Crespi Home School (2127) Ext. Painting & Door replace. Wilco Const. Co.	5-31-62	0	2,922	0	District
Gough-Page & Jefferson Nurseries (2134) Painting Robert Thompson	6-20-62	0	4,260	0	District
Madison School (2135) Ext. repairs & painting Robert Thompson	6-20-62	0	20,700	0	District
Various Schools (2132) Painting game lines Fiberaised Bar & Line Co.	6-20-62	0	4,485	0	District
Total Awarded and Expended During Fiscal Year			$211,435	$ 164,205	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
A-7 YARD PAVING					
Various Nursery Schools (1966) Misc. fence & paving work O. C. Jones & Sons	4- 7-61	8-18-61	$ 3,643	$ 3,643	District
Various Schools (2006) Resurfacing yard paving Malott & Peterson-Grundy	6-28-61	9-14-61	32,477	32,477	District
City College (2104) Track Resurfacing The Lowrie Paving Co.	4-11-62	99%	1,975	1,778	1956 School
Northridge Nursery and School-age Center (2121) Yard Paving & resurfacing work The Fay Improvement Co.	5-16-62	50%	1,690	845	District
Various Schools (2130) Yard Paving & Painting game lines Malott & Peterson-Grundy	5-31-62	0	45,397	0	District
Various Schools (2131) Resurfacing Yard Paving & Painting game lines Malott & Peterson-Grundy	6-20-62	0	29,387	0	District
Total Awarded and Expended During Fiscal Year			$ 78,489	$ 38,743	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
B-1 FIRE DEPARTMENT NEW CONSTRUCTION					
Extension to S.F. Fire Dept. Training Center (1977) Ivan A. Sorg	6- 9-61	98%	$ 58,808	$ 57,632	Real Property
Firehouse for Engine #22 General Construction (2020) Peter Sartorio	9-29-61	71%	202,657	143,886	1952 Fire
Firehouse Engine #23 (2052) General Construction Ira H. Larsen Co.	4-18-62	2%	236,018	4,720	General
Total Awarded and Expended During Fiscal Year			$438,675	$206,238	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
C-1 S. F. GENERAL HOSPITAL					
Ward Bldg. 10, Modernization Proj.III, Phase E, Part 2 and conn. corr. btw. bldgs 10 and 20 (1748-1750) Arntz Brothers	10-2-59	8-31-61	$ 924,629	$ 13,869	1954 Hospital
T.B. Bldg. 60 (1914) New Passenger Elevator Otis Elevator Co.	8-24-60	1-25-62	32,438	20,597	1954 Hospital
T.B. Bldg. 60 (1840) General Construction Wm. McIntosh & Son	8-24-60	3- 9-62	644,689	257,876	1954 Hospital General
Isolation Bldg. (1932) 2nd and 3rd floors Gunite shear walls Wm. McIntosh & Son	4-28-61	9- 1-61	11,775	5,888	General
Ward Bldgs. 20 and 30 (1965) Structural reinforcing on 5th floors Wm. McIntosh & Son	6-14-61	85%	24,807	21,086	General
Morgue and Isolation Bldgs. Power conversion elevators (2028) Pacific Elevator & Equip.Co.	8-18-61	12-1-61	5,387	5,387	Def.Maint.

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
B-1 FIRE DEPARTMENT NEW CONSTRUCTION					
Extension to S.F. Fire Dept. Training Center (1977) Ivan A. Sorg	6- 9-61	98%	$ 58,808	$ 57,632	Real Property
Firehouse for Engine #22 General Construction (2020) Peter Sartorio	9-29-61	71%	202,657	143,886	1952 Fire
Firehouse Engine #23 (2052) General Construction Ira H. Larsen Co.	4-18-62	2%	236,018	4,720	General
Total Awarded and Expended During Fiscal Year			$438,675	$206,238	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
C-1 S. F. GENERAL HOSPITAL					
Ward Bldg. 10, Modernization Proj.III, Phase E, Part 2 and conn. corr. btw. bldgs 10 and 20 (1748-1750) Arntz Brothers	10-2-59	8-31-61	$ 924,629	$ 13,869	1954 Hospital
T.B. Bldg. 60 (1914) New Passenger Elevator Otis Elevator Co.	8-24-60	1-25-62	32,438	20,597	1954 Hospital
T.B. Bldg. 60 (1840) General Construction Wm. McIntosh & Son	8-24-60	3- 9-62	644,689	257,876	1954 Hospital General
Isolation Bldg. (1932) 2nd and 3rd floors Gunite shear walls Wm. McIntosh & Son	4-28-61	9- 1-61	11,775	5,888	General
Ward Bldgs. 20 and 30 (1965) Structural reinforcing on 5th floors Wm. McIntosh & Son	6-14-61	85%	24,807	21,086	General
Morgue and Isolation Bldgs. Power conversion elevators (2028) Pacific Elevator & Equip.Co.	8-18-61	12-1-61	5,387	5,387	Def.Maint.

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
C-1 S.F. GENERAL HOSPITAL					
Fence Repair and Miscellaneous work (2043) Wilco Construction Co.	10-13-61	3-17-62	$ 32,568	$ 32,568	Def.Maint.
Psychiatric Bldg. 90 Reglazing windows (2054) Habenicht & Howlett	10-27-61	3-14-62	4,984	4,984	General
Temporary Morgue Facilities General construction (2032R) De Narde Construction Co.	11-15-61	3-14-62	22,396	22,396	General
Ward 21, Medical Records Room Alterations (2082) Wm. McIntosh & Son	2-14-62	3-28-62	13,895	13,895	General
Buildings 1, 1A, 1B & 1C (2089) Roof. & parapet wall repairs Wm. McIntosh & Son	3-21-62	99%	16,145	15,984	Def. Maint.
Psychiatry Building (2056) Alt. to first floor Stenmark Construction Co.	5-2-62	10%	23,598	2,360	General
New Turbine Generator Unit and related work (2126) Brayer Electric Co.	5-25-62	0	82,888	0	Def.Maint. 1954 Hosp.
Fence Repair & misc. work Part ii (2144) De Narde Construction Co.	6-22-62	0	25,846	0	Def.Maint.
Psychiatry Bldg. 90 (2145) Pass.Elevator mod. Westinghouse Elec. Corp.	6-22-62	0	13,859	0	Def.Maint.
Total Awarded and Expended During Fiscal Year			$241,566	$416,890	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract amount	Amount Expended 1961-1962	Fund
C-2 LAGUNA HONDA HOME					
Ward Bldgs. M & O and related work (1961) Arntz Construction Co.	6- 16-61	68%	$ 229,907	$ 156,337	Def.Maint.
Clarendon Hall (2036) Terrazzo Floor refinish. Travertite Co. Inc.	9- 13-61	11-29-61	295	295	Def.Maint.
Repairs to Dishwashers and related work (2083R) Bureau of Bldg. Repair	4- 11-62	0	4,850	0	Def.Maint.
Clarendon Hall (2092) Terrazzo Floor repairs Travertite Co. Inc.	4- 11-62	99%	14,910	14,761	Def.Maint.
Ward Bldgs. M & O (2035) Resilient Flooring Houston's Linoleum	5- 23-62	0	4,787	0	Def.Maint.
Main Kitchen alterations (2102) J.H. McFarland Corp.	6- 20-62	0	11,994	0	Def.Maint.
Emergency Light. System (2136) Hampton Elec. Mfg. Co.	6- 20-62	0	8,867	0	Def.Maint.
Demolition & Removal of Incinerator & related work (2146) Cleveland Wrecking Co.	6- 22-62	0	1,395	0	Maint.& Rep.
Total Awarded and Expended During Fiscal Year			$ 47,098	$171,393	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
C-3 HEALTH CENTER BUILDING					
Painting ext. ornamental Metal Work (2025R) Atlas Painting Co.	8-30-61	12-12-61	$ 3,340	$ 3,340	General
Total Awarded and Expended During Fiscal Year			$ 3,340	$ 3,340	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
D- M.H. DE YOUNG MEMORIAL MUSEUM					
Two New Flagpoles (2031) L. Ph. Bolander & Sons	8-11-61	9-28-61	$ 833	$ 833	General
Kress Wing (2088) Ceiling Renewal work Experimental Lighting Bay Elec. Construction Co.	3-14-62	6-7-62	815	815	General
Kress Wing Additional lighting (2150) Bay Elec. Construction Co.	6-22-62	0	1,125	0	General
Total Awarded and Expended During Fiscal Year			$2,773	$1,648	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
E- YOUTH GUIDANCE CENTER					
Maximum Security Cottage (1851R) John A. Nelson, Inc.	12-28-60	12-8-61	$ 182,500	$ 94,900	General
Stainless Steel Work (1991) Bureau of Bldg.Repair	6-26-61	12-15-61	3,053	3,053	General
Boys & Girls Gymnasiums Sanding & Refinish. of Hardwood Floors and related work (2038) Monterey Floor Co.	9-6-61	2-20-62	2,100	2,100	General
Administration Bldg. (2039) Various Rooms, Wall Covering Repair A. Quandt & Sons, Inc.	9-27-61	3-14-62	4,165	4,165	General
Maximum Security Cottage B-5 Darkening Drapes for classrooms (2079) Fred E. Turner Co.	1- 5-62	4- 3-62	372	372	General
Girls' Cottages G1 & G2 (2117) Additions & Alterations Thomas E. McCormick	5-16-62	35%	3,790	1,327	General
Total Awarded and Expended During Fiscal Year			$ 10,427	$105,917	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
F- CIVIC CENTER					
Civic Center Plaza (1993) Pre-cast concrete interceptor drain panels Bureau of Bldg. Repair	5- 26-61	9-22-61	$ 3,300	$ 3,300	1954 Ex.Hall
450 McAllister St. (1946) Alterations to Building Stenmark Construction Co.	7- 5-61	1-12-62	139,181	139,181	General
City Hall (2033) Handrail, main stairway to basement F. Kern & Sons Iron Wks	8-18-61	1-12-62	1,421	1,421	General
Civic Center Garage (2064) Electric Sign for Parking Garage Wonderlite Neon Products	11-8-61	4- 4-62	1,664	1,664	1954 Ex.Hall
City Hall (2074) Alter. to Bd.of Supervisors Meeting Room Wm. McIntosh & Son	3-28-62	65%	24,070	15,646	General
City Hall Annex Bldg.(2141) Replace sidewalk door for freight elevator Phoenix-Simpton Co.	6- 6-62	0	850	0	General

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
F- CIVIC CENTER (cont.)					
City Hall Annex Bldg. Elevator Repair Work (2140R) Westinghouse Elec. Corp.	6-13-62	0	$ 1,772	0	General
Anza Branch Library Window Repairs (2142) Paige Glass Co.	6-22-62	0	1,950	0	General
Total Awarded and Expended During Fiscal Year			$ 170,908	$ 161,212	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
G- HALL OF JUSTICE					
General Construction Phase II (1620) M & K Corporation	11-19-58	1-3-62	$13,508,500	$675,425	1956 H of J
Elevators (1620A) Otis Elevator Co.	11-19-58	7-28-61	465,888	13,977	1956 H of J
Topsoil, Finish grading and Planting (1620B) Rudolph Watson	11-19-58	11-8-61	30,500	21,350	1956 H of J
Waterproofing under Parapet Copings (2100) E. Finnerty	4-4-62	5-31-62	1,760	1,760	1956 H of J
Special Acoustical Treatment (2103) The Brookman Co.	4-25-62	50%	1,927	964	1956 H of J
Elevator Door Locks (2116) Otis Elevator Co.	5- 2-62	50%	1,887	944	1956 H of J
Police Dept. (2124) New Wire Mesh Work Michel & Pfeffers	6-13-62	0	1,477	0	1956 H of J
Civic Auditorium (2133) Hollow Metal Security Door Wm. Montgomery	6-20-62	0	718	0	1956 H of J
City Prison - 6th floor Steel Jail Doors (2125) Herrick Iron Works	6-29-62	0	1,976	0	1956 H of J
Total Awarded and Expended During Fiscal Year			$ 9,745	$ 714,420	

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
H- MISCELLANEOUS					
Steinhart Aquarium (1846) Alterations & Additions Ira A. Larsen Co.	7-27-60	80%	$1,227,711	$ 454,253	1958 Rec-Park
Eureka Valley Library (1952) General Construction Leon Carlen	12-28-60	8-8-61	150,000	150,000	General
Public Welfare Bldg. (1935) Window replacement and Interior Alterations Erbentraut & Summers	12-28-60	8-4-61	36,909	738	General
Log Cabin Ranch (1953) Service Building Filo Corp.	3-10-61	9-14-61	42,274	23,251	General
Palace of Legion of Honor Installation of Louis XVI Room (2000) Antone Petersen & Son	6-14-61	1-9-62	24,880	24,880	General
S.F. Museum of Art (2001) Fabric Wall Covering Ink Ribbon Mfg.Co.	6-16-61	11-2-61	1,164	1,164	General
Log Cabin Ranch School (2010) Fire Alarm System Gillard Elect. Co.	7-12-61	12-8-61	1,886	1,886	General

Log Cabin Ranch School Service Bldg. (2023) Project 4, Phase 2 Paving and misc. work C. F. Archibald	8- 4-61	9-25-61	$ 6,738	$ 6,738	General
Zoological Gardens (2034) Reroofing and related work, various buildings Western Roofing Service	9-29-61	11-20-61	11,083	11,083	General
150 Otis Street (2040 Phase II) General Contract items 6th & 7th floors Antone Petersen & Sons	10-17-61	2-28-62	21,320	21,320	General
150 Otis Street (2040 Phase IV) Integrated ceilings Western Asbestos Co.	10-17-61	1- 3-62	11,660	11,660	General
150 Otis Street (2040 Phase III) Aluminum Windows Universal Window Co.	10-19-61	11-15-61	4,789	4,789	General
Main Library (2045) Alteration, Catalog Dept. Stenmark Const. Co.	10-20-61	2-27-62	1,395	1,395	General
Excelsior Playground (2047) Painting floodlight stds. Robert Thompson	10-20-61	1-18-62	1,670	1,670	General

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-62	Fund
H-MISCELLANEOUS					
Palace of Legion of Honor Skylights over garden courts (2065) Guilfoy Cornice Works	10-25-61	2- 5-62	$ 14,500	$ 14,500	General
150 Otis Street (2040-Phase I) Demolition work, 6th and 7th floors Flora Crane Service	10-11-61	10-27-61	3,600	3,600	General
Japanese Tea Garden (2055) Fencing, Painting and repair International Steel Fence Co.	10-27-61	1- 2-62	2,390	2,390	General
Ocean View and St. Mary's Recreation Centers (2044) Reroofing various units Western Roofing Service	11-3-61	3-26-62	8,274	8,274	General
Sharp Park Golf Course Painting Clubhouse (2049) Ward Bros.Painting Co.	12-22-61	3- 6-62	1,400	1,400	General
150 Otis Street (2040 Phase V) Renovation to 8th floor Stenmark Construction Co.	1- 3-62	4-17-62	21,985	21,985	General
Golden Gate Park Repairs to ship GJOA (2048) West Winds, Inc.	1-17-62	99%	6,975	6,905	General
150 Otis St. (2040 Phase VI) Elevator Alterations Otis Elevator Co.	1-31-62	5- 2-62	1,337	1,337	General

Sharp Park Golf Course Painting Interior (2086) Ward Bros. Painting Co.	2-21-62	4-10-62	$ 575	$ 575	General
150 Otis Street (2040 Phase VII) Acoustical work Western Asbestos Co.	3- 7-62	4- 5-62	483	483	General
Civic Auditorium (1955-R) Rehabilitation Perini Corporation	5- 2-62	0	6,623,000	0	1960 Aud.
Stern Grove Clubhouse Fire Damage (2070) De Narde Construction Co.	5-16-62	65%	13,292	8,540	General
150 Otis Street (2040 Phase IX) Acoustical Work Western Asbestos Co.	5-16-62	99%	1,495	1,480	General
Alterations to Handball Courts Golden Gate Park (2090) J. H. McFarland Corp.	6-27-62	0	12,994	0	General
Hunters Point Gymnasium Wire Mesh Screens over windows (2129) Wm. McIntosh & Son	6-27-62	0	5,338	0	General

CURRENT CONTRACT DATA 1961-1962

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1961-1962	Fund
H- MISCELLANEOUS (cont.)					
431, 437 Bosworth Street City-owned property Crosstown Freeway (2155) Painting AAA Painting & Decor. Co.	6-27-62	0	$ 721	0	General
Public Welfare Building (2026) Steam Cleaning and Painting Robert Thompson	6-29-62	0	7,800	0	General
Total Awarded and Expended During Fiscal Year			$6,786,700	$786,296	

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ANNUAL REPORT

of the

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

FISCAL YEAR ENDING JUNE 30, 1963

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ANNUAL REPORT

of the

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

FISCAL YEAR ENDING JUNE 30, 1963

GEORGE CHRISTOPHER	Mayor
SHERMAN P. DUCKEL	Chief Administrative Officer
S. MYRON TATARIAN	Director of Public Works

Material compiled by John A. Jelincich, Bureau of Engineering

R352.5 S194a
1962/63 c.1

S. MYRON TATARIAN
DIRECTOR OF PUBLIC WORKS

Clarendon Avenue Pedestrian Overpass

TABLE OF CONTENTS

DIRECTOR'S LETTER OF TRANSMITTAL 5

BUREAU OF ENGINEERING 6

BUREAU OF ARCHITECTURE 63

BUREAU OF BUILDING INSPECTION 84

MAINTENANCE AND OPERATION 98

- BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT. . 101
- BUREAU OF BUILDING REPAIR 119
- BUREAU OF STREET REPAIR 127
- BUREAU OF STREET CLEANING AND PLANTING 140

ADMINISTRATIVE BUREAUS 152

- BUREAU OF ACCOUNTS 152
- CENTRAL PERMIT BUREAU 159

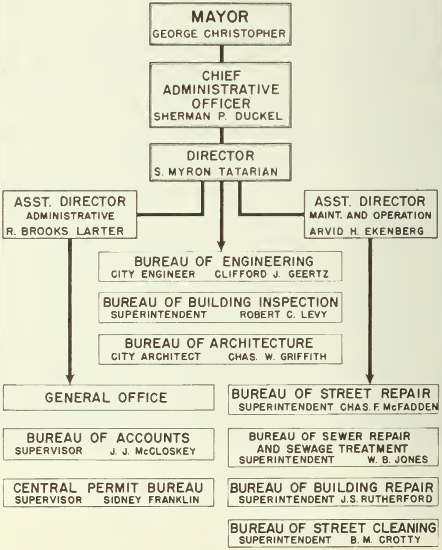
APPENDICES

I - Current Contract Data, Bureau of Engineering
II - Current Contract Data, Bureau of Architecture

ORGANIZATION CHART

DEPARTMENT OF PUBLIC WORKS

CITY AND COUNTY OF SAN FRANCISCO
JUNE 30, 1963


MAYOR
GEORGE CHRISTOPHER
CHIEF ADMINISTRATIVE OFFICER
SHERMAN P. DUCKEL
DIRECTOR
S. MYRON TATARIAN
ASST. DIRECTOR
ADMINISTRATIVE
R. BROOKS LARTER
ASST. DIRECTOR
MAINT. AND OPERATION
ARVID H. EKENBERG
BUREAU OF ENGINEERING
CITY ENGINEER CLIFFORD J. GEERTZ
BUREAU OF BUILDING INSPECTION
SUPERINTENDENT ROBERT C. LEVY
BUREAU OF ARCHITECTURE
CITY ARCHITECT CHAS. W. GRIFFITH
GENERAL OFFICE
BUREAU OF ACCOUNTS
SUPERVISOR J. J. McCLOSKEY
CENTRAL PERMIT BUREAU
SUPERVISOR SIDNEY FRANKLIN
BUREAU OF STREET REPAIR
SUPERINTENDENT CHAS. F. McFADDEN
BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT
SUPERINTENDENT W. B. JONES
BUREAU OF BUILDING REPAIR
SUPERINTENDENT J. S. RUTHERFORD
BUREAU OF STREET CLEANING
SUPERINTENDENT B. M. CROTTY

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE
IRECTOR OF PUBLIC WORKS

260 CITY HALL
SAN FRANCISCO 2
CALIFORNIA

December 13, 1963

Annual Report
1962-1963

Mr. Sherman P. Duckel
Chief Administrative Officer
City and County of San Francisco

Dear Mr. Duckel:

In compliance with the provisions of Section 20 of the Charter of the City and County of San Francisco, I submit the annual report of the Department of Public Works for the fiscal year ending June 30, 1963.

During the year the Department awarded 256 construction contracts with a total bid amount of $10,248,963. This was an increase of 4% in the number of contracts and a decrease of 17% in the value of the contracts awarded in the preceding year.

Major projects completed or under construction include the rehabilitation of the Steinhart Aquarium and the Civic Auditorium, the construction of two new high schools, Lowell and Woodrow Wilson, the new Firehouse for Engine #22, the widening of Webster Street between Post Street and Golden Gate Avenue, the Division Street Sewer enlargement between 10th Street and DeHaro Street, the sewage diversion projects on the north side of the Channel and the filling of the Western Pacific Railway Tunnel beneath Potrero Hill.

There were 14,728 building permits issued for private construction projects with an estimated construction cost of $185,873,040. This was an increase of 7% in permits and an increase of 61% in construction value.

The Assistant Directors, the Bureau Heads, their staffs, and the personnel of the Department are to be commended for jobs well done.

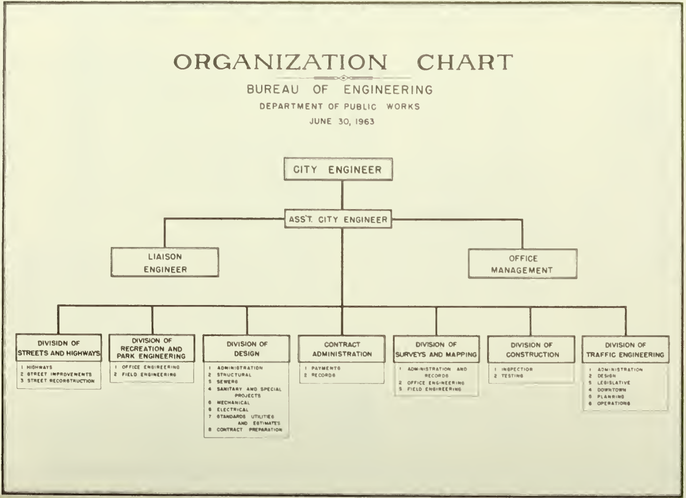
The major portion of the work performed by this Department was carried out under the direction of Mr. Reuben H. Owens, who retired as Director at the end of March 1963. His dedication to this Department and to the entire City government has left a lasting mark.

Thank you for your consideration and support in matters concerning the Department.

Very truly yours,

Tatarian

S. M. Tatarian
Director of Public Works



ORGANIZATION CHART

BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

JUNE 30, 1963

BUREAU OF ENGINEERING

Clifford J. Geertz, City Engineer

GENERAL DATA

The Bureau of Engineering as the principal municipal engineering unit pertinent to public works, initiates, and is responsible for, the planning, design and construction of a program which has ranged in value over a period of 15 years from an average of $6,000,000 a year to as high as $14,000,000 for a given fiscal period. Employments over the same period have varied from an average of 250 to a high of 333. The report for this fiscal period showed 266 employments of which 114 were in professional engineering classifications. An average of 120 contracts per year are financed principally from sewer bond funds, the City's share of the State gasoline tax, and funds budgeted by the Board of Supervisors from ad valorem taxes.

PROGRAMMING

The engineering construction program is tailored for future needs through procedures adopted by Charter amendments in the post-war years which established for all City departments an annual submission of long-range capital improvement programming. These systematic programs are developed for six-year periods including a detailed report for the first year projects to determine Master Plan conformity and justification for inclusion in the annual budget submittals for the ensuing fiscal year.

To minimize a gradual accumulation of unfunded projects and effectuate the more urgent capital improvement needs, the Board of Supervisors in 1960 established a Budget Priority Committee. The resulting screening process and the assigning of priorities to maintenance and repair projects as well as urgent capital improvements, has succeeded in effectively reducing critical deficiencies. Another significant result has been to make project scheduling more thorough and realistic at departmental and bureau levels.

By furnishing City officials responsible for review with accurate and detailed information, certain advantages have been realized as follows:

1. Engineering projects related to comprehensive studies are received as a sound basis for budget requests.

2. Piecemeal solutions can be largely avoided.

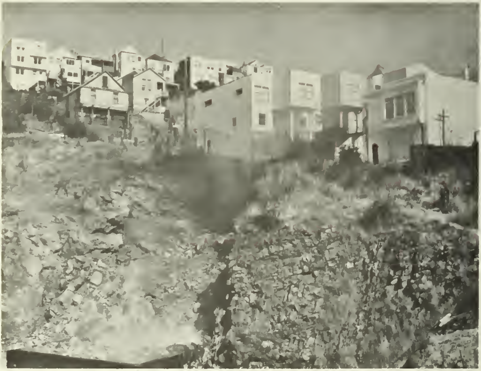
3. Financial planning and departmental programming are made compatible.

4. Priorities are assigned more equitably.

5. Departmental and bureau planning are effectively realized through a workable Master Plan.

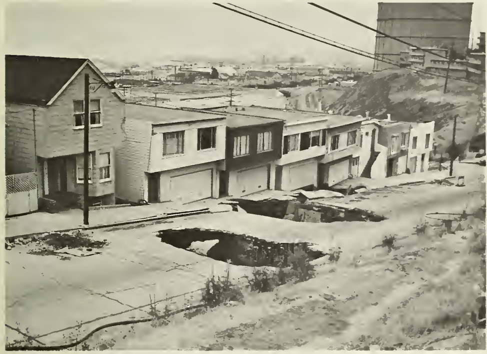
PROJECTS OF GENERAL INTEREST

POTRERO HILL TUNNEL FIRE



POTRERO HILL
WESTERN PACIFIC TUNNEL FIRE
TEXAS & SIERRA STREETS

On June 30, 1962, a fire broke out in the still functional timberlined Potrero Hill Tunnel, which had been constructed by the Western Pacific Railroad a half century ago. The blaze, of undetermined origin, caused extensive damage to streets, sewers and private property, by burning out the timber supports, thus causing surface areas above the tunnel to cave in at eight locations. These depressions formed "glory holes'' twenty to fifty feet in diameter. They were divided evenly in location, four near each end of the 1625 foot tunnel.



"GLORY HOLES"

The work on this project consisted of filling the sub-surface voids and stabilizing the caved-in areas, including restoration of streets and sewers to their original grade level. The project itself was assigned to Morrison Knudsen Company, Inc., and work proceeded under written directives issued by the City Engineer.

To seal off the portal areas at the tunnel level, the contractor first covered the portals completely with compacted earth which was dozed and compacted by two D-8 tractors. Twelve-inch holes were then drilled down to track level with a rotary drill rig, at about 1/3 of the tunnel length inward from each portal. These holes were cased and used to pour concrete into the tunnel. 1005 cy. and 1946 cy. of concrete were used at the north and south ends respectively to form two solid plugs which completely blocked off the tunnel's extremeties from its center portion. A total of 65 holes were then drilled between the plugs and the portals, to fill existing voids, after which 6000 cy. of soil-cement grout were pumped by two Moyno pumps and a mud jacking procedure to stabilize these sealed-off portions of the tunnel. An estimated 90 per cent of the voids were filled in the two end sections of the tunnel.

CONCRETE PLUG

To fill the center portion of the tunnel a 16-inch pilot hole was drilled near the northerly concrete plug. A 9 x 12-foot shaft excavation was made to penetrate the serpentine material to a depth of 95 feet. A 933 Caterpillar tractor was then lowered into the tunnel, a ventilation and light system installed, and the unevenly caved-in detritus piles were leveled off. A second 16-inch pilot hole was then drilled about 300 feet south of the shaft at the intersection of 20th and Connecticut Streets.

This was used to introduce drift sand, hauled from the ocean beach, into the tunnel. A total of 7300 cy. of sand were end-dumped into a hopper set over the 16-inch hole and the tractor worked the material to within a foot or two of the tunnel roof. A slusher box was then set at the bottom of the shaft to complete the placing of the sand after the tractor was removed. The top one-foot section was then filled by gravity dumping a lean concrete grout and by use of the Moyno pump. A total of 1250 cy. of grout were used in this operation. The shaft was then filled with sand and jetted to an elevation 30 feet from the surface. The timber sets were removed from the top 30 feet of the shaft and the filling operation completed.

SAND FILL SECTION

LOWERING "CAT"

Work was then started on the rehabilitation of the damaged streets and sewerage system in the area. A contract to replace the main sewer and reconstruct the side sewers was let to The Fay Improvement Company and was completed at a cost of $16,040.34.

The street work contract was let to Pacific Pavements Co., Ltd. and was completed at a cost of $19,058.74.

Due to the unknown conditions and amount of work to be encountered in the tunnel section, all tunnel work was done by Morrison-Knudsen Co., Inc., on a cost plus fixed fee basis which ultimately amounted to $672,497.76.

In addition, the following costs are listed as being directly chargeable to this operation:

1. Professional services performed by Dames & Moore, Consultants in Soil Mechanics, Engineering Geology and Geophysics, and Thomas F. Thompson, Consulting Engineer Geologist - $16,811.31.

2. Area damage survey and report submitted by Harry S. Kirmond for a fee of $3,000.00.

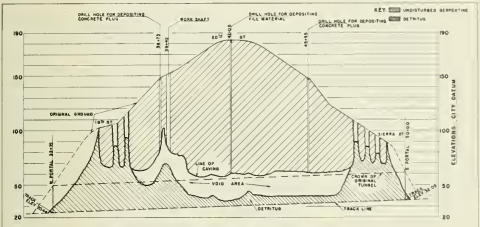
3. Special insurance carried by the City and County of San Francisco for protection against additional damages not directly caused by the contractor's operation - $10,000.00.

4. Work done by City of San Francisco forces in maintaining a sewerage by-pass system during the rehabilitation work - $7,057.96.

5. Plans and specifications, inspection and other supervisory work - $25,696.36.

In summing up, it is pleasing to note that the entire situation was corrected with most fortunate results. First, and most important, no loss of life or bodily injury was incurred by anyone associated with the project. Secondly, only good will seems to have been manifested by the residents of the damaged area toward the City and the construction company. Since the nature of the disaster caused these people great inconvenience, their cooperation and apparent satisfaction with our efforts was most gratifying.

Finally, the resultant accessibility to the center portion of the tunnel with the construction of the shafts minimized the costs for this project and the final figure was less than that originally estimated. Therefore, since no injuries were sustained, no hostility was incurred and no unexpected expenditures arose, one would conclude that the problem was taken care of successfully.



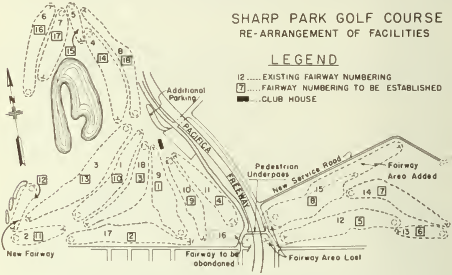
PROFILE ALONG TUNNEL ℄ (LOOKING EASTERLY)

RE-ARRANGEMENT OF FACILITIES AT SHARP PARK GOLF COURSE FOR THE ACCOMMODATION OF THE PACIFICA FREEWAY

Old State Highway No. 1 through the Sharp Park District in Pacifica divides the San Francisco-owned Sharp Park Golf Course into two parts. On the west side of the highway are fourteen fairways, the clubhouse, and the parking area; on the east side, extending up into a canyon, are the remaining four fairways and a park road servicing other facilities beyond the Golf Course limits.

A new freeway, approximately on the existing State Highway alignment, affects the Golf Course facilities on both sides of the right of way. Lost are one entire fairway, portions of two others, and part of the parking area.

Fortunately, the City of San Francisco owns considerable property in the Sharp Park District and, with funds provided by the State Division of Highways, the Bureau of Engineering prepared plans and specifications for the construction of Golf Course facilities replacing those portions eliminated by the freeway construction. The transfer of funds from the State to the City included the condition that the existing facilities were to be re-arranged and not expanded. The new course, while conforming to this requirement, will contain features that will be more desirable than the present course.



The course will be safer for both the public and the golfer. A pedestrian undercrossing, to be included in the freeway contract, will eliminate the hazard to golfers in crossing the highway at grade while touring the 18 holes. The old canyon park road, adjacent to the present 15th fairway, will be relocated at a higher elevation and a portion fenced so that the public will be protected from sliced drives off the 15th tee.

The new design provides for a physically less demanding course. The fairways are to be renumbered so that the revised sequence of play includes the three ''uphill'' canyon holes in the front nine while the golfers are fresh rather than in the back nine as under the present conditions.

A tougher test will be provided for the skilled golfer without discouraging the inexperienced. The old par four, 407-yard 15th will be extended to a par five, 470-yard fairway played into the prevailing winds. Those inclined to do so, however, can play the hole as before since provision is made to retain the present tee in addition to the new one.

Special windbreak treatment is planned for an entirely new 12th fairway. This fairway, to be constructed parallel to the Pacific Ocean beach, will be protected from ocean breezes with three high windbreak dunes constructed with material excavated from the parking area site. The dunes will be adjacent to the fairway for its entire length, and will be planted with 250 cypress trees.

Finally, visual appeal has not been overlooked. One hundred pine trees will be planted to screen the park road from the golf course. In addition, 25 deciduous trees are to be planted in selected locations.

SAN FRANCISCO WHOLESALE PRODUCE MARKET

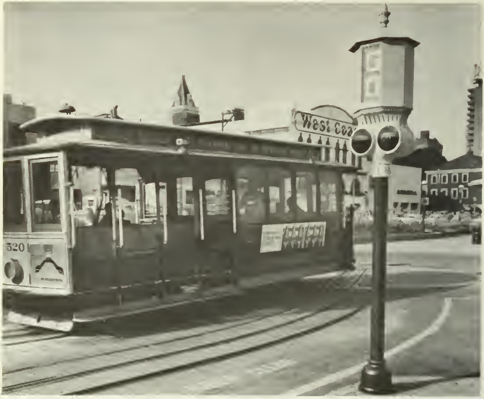
The Golden Gateway Redevelopment Project necessitated acquisition of the areas occupied by the wholesale produce merchants. The produce merchants, therefore, established the S. F. Wholesale Produce Market Corporation, to develop a new produce terminal in San Francisco at the abandoned U. S. Marine Corps Depot near Islais Creek.

Major participation of the Bureau of Engineering consists of improving the area streets and drainage system. The contract for the street work was awarded April 30, 1963 at a contract cost of $189,-558.00.

Photo - courtesy of San Francisco Wholesale Produce Market Corp.
and Larry Kenney Photography

LAST "BIRDCAGE" SIGNAL REMOVED

On Monday, July 30, 1962, the last of the Wiley traffic signals was retired from service, after having controlled vehicular and pedestrian traffic at the intersection of Columbus Avenue, Kearny Street and Pacific Avenue since April 17, 1931. The faithful sentinel from a bygone era was replaced by modern three-light traffic signal equipment.



The so-called "bird cage" signal was invented by Ralph T. Wiley shortly after he became Chief of the Department of Electricity on May 27, 1920, and the first installation of his unique contribution to traffic control was at Market and Montgomery Street on May 31, 1921. As many as 219 intersections were controlled by these signals when in December of 1945, the City began a program of removal and replacement with modern three-light traffic signal equipment. Recognizing that this venerable Stop-and-Go signal has considerable historical significance, one of the signals has been installed at the end of the Hyde Street cable car line at Beach and Hyde Streets, where it will be preserved for posterity.

FOYER LIGHTING
CALIFORNIA PALACE OF THE LEGION OF HONOR

At the close of the fiscal year, a new lighting chandelier was installed at the California Palace of the Legion of Honor. It was duplicated from patterns purchased in Paris from the ancient foundry of E. Martin, a French firm, whose members were participants in the restoration of the royal palaces at Versailles and Fontainebleau. The chandelier pieces used are replicas of those dating from the period of Louis XVI and are in keeping with the architecture of the building. Some of these pieces were made from sand castings and others by the lost-wax method and, consequently, cannot be replaced. Certain of the original bronze patterns were polished and incorporated in the chandelier.

This new chandelier replaces the original of 1924, which had inadequately lighted the foyer and consequently even on sunny days the atmosphere was pervaded with gloom.

It is interesting to note that the replacement of the old fixture presented a problem — how to improve the lighting and still maintain the architectural integrity of the building since its style was based on that of the Palace of the Legion of Honor in Paris built by Pierre Rosseau in 1786. Naturally, illumination by modern fixtures was not feasible.

The problem was presented to firms engaged in the production of fine lighting fixtures. Experiments proved that an illusion of light could be created with unobtrusive indirect lighting fixtures using the ceiling as a secondary source. Precise control of the luminous flux was necessary to prevent annoying reflections from the marble trim. The only possible locations for the lighting fixtures were such that shadows of the existing chandelier appeared on the ceiling. Therefore, thought was given to a new chandelier that would direct enough light upwards to reduce the shadows.

Investigation disclosed that indirect lighting fixtures of special design with precisely cut masks to prevent undesired light on the walls were available and, in addition, a lighting company advised the designers that patterns were available for fabrication of an authentic chandelier of the period of the building. It was agreed that designs would be submitted for this type of chandelier. Upon enthusiastic approval of the designs by the officers of the Palace of the Legion of Honor, final contract plans and specifications were completed and a contract was awarded in the amount of $3,700.00.

All efforts expended in matching this beautiful chandelier with the original architecture were well rewarded as now shown in the splendidly lighted entranceway to this classic building.

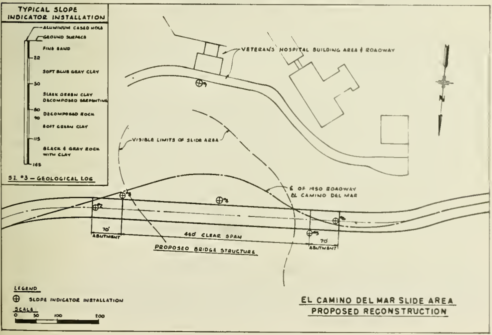
PALACE OF THE LEGION OF HONOR
Foyer Lighting Improvement

SUBSURFACE GROUND MOVEMENT STUDIES
DEL MAR SLIDE AREA

In conjunction with the design of the proposed El Camino del Mar Bridge, which will span an active slide area located along a scenic route overlooking the Golden Gate, it was necessary to ascertain the magnitude of horizontal subsurface movement in order to determine the location and depths of abutments and piers.

Under the supervision of Professor Harry B. Seed of the University of California, slope-indicator tubes were installed in borings in the active slide area and in the proposed abutment locations.

EL CAMINO DEL MAR SLIDE



EL CAMINO DEL MAR SLIDE AREA
PROPOSED RECONSTRUCTION

TYPICAL SLOPE INDICATOR INSTALLATION
ALUMINUM CASED HOLE
GROUND SURFACE
FINE SAND
20
SOFT BLUE GRAY CLAY
50
SLEEK GREEN CLAY DECOMPOSED SERPENTINE
80
90
DECOMPOSED ROCK
SOFT GREEN CLAY
115
BLACK & GRAY ROCK WITH CLAY
145
SI. #3 – GEOLOGICAL LOG
VETERANS' HOSPITAL BUILDING AREA & ROADWAY
N
VISIBLE LIMITS OF SLIDE AREA
℄ OF 1950 ROADWAY EL CAMINO DEL MAR
#2
#3
#4
#5
#6
70'
ABUTMENT
450' CLEAR SPAN
70'
ABUTMENT
PROPOSED BRIDGE STRUCTURE
LEGEND
⊕ SLOPE INDICATOR INSTALLATION
SCALE
0 50 100 200

In order to take the necessary measurements, a slope indicator device was periodically lowered into each tube and any change in vertical alignment was continuously registered at various depths during the lowering.

Grooves in the wall of each tube maintained the orientation of the indicator, and integration of the varying slopes as measured over the length of the hole determined the horizontal movement which has occurred at any desired depth.

Early readings from the slope indicators indicated that the movement in the east abutment location is slight, in the west abutment location negligible, and in the active slide area considerable.

DIVISION OF SURVEYS & MAPPING

The Field Survey Section has been engaged on two surveys of considerable interest and difficulty.

The first of these surveys consists of establishing ground controls for photogrammetric mapping of three separate areas within the city; namely, El Camino Del Mar Slide Area, Burnett Avenue Extension Area, and the Army Street Circle Area.

The steepness and exposed areas of narrow and irregularly laid out streets dictated the use of much triangulation. Many delays and much interference in observing the angles and making the measurements was caused by heavy winds, rains, fog, and the discovery of many disturbed USCGS control points. This survey is practically complete at this time.

The second survey consists of locating all underground utilities, structures, and other improvements within the San Francisco Zoological Gardens. These are to be tied to the extended ground controls of the photogrammetric survey covering the Great Highway Extension, Skyline, and Lake Merced Boulevards. The difficulty of locating these utilities, which is principally by the use of a ''pipe locator'', is due to the long period of unrecorded placement, as the Zoo was expanded through the years.

A third survey of note, that for the ''shoofly'' trestle construction recently completed in conjunction with the reconstruction of Evans Avenue, will be covered in the material submitted by the Division of Streets and Highways.

TRIANGULATING FOR PHOTOGRAMMETRIC SURVEY GROUND CONTROLS

Observing upon the USC & GS point "FORT PT. LIGHT HOUSE" at southerly anchorage of Golden Gate Bridge from control point on cliff below Cruiser San Francisco Observation Point. The sharp cliff near the right center of the view is known as Lands End on which another ground control point is located. The area between the two, shows the termination of the El Camino Del Mar Slides, in the surf of the Golden Gate.

A significant activity of the Mapping and Administrative Sections was the recording of the first condominium subdivision in the City, "The Hamilton".

As this is a "vertical" type of subdivision with which we had no previous experience, the City Attorney was asked, and replied that this was indeed a subdivision under the provisions of the Subdivision Map Act, the first such subdivision recorded in San Francisco.

The Department of City Planning approved the tentative map as being in conformity with the Master Plan. The Divisions of Design, Streets and Highways, and Traffic Engineering reviewed and approved the final map, which was initiated by Mr. William Wright, Licensed Land Surveyor.

ARMY STREET CIRCLE PHOTOGRAMMETRIC SURVEY
Survey Crew engaged in triangulating for photogrammetric survey ground controls. Army Street Circle, and James Lick Freeway in background.

SURVEY CREW, USING TRANSISTORIZED EQUIPMENT TO LOCATE UNDERGROUND UTILITIES AT FLEISHHACKER ZOO.

USE OF IBM CARDS
FOR
SIDEWALK WIDTHS AND GRADE MAPS FILES

Among the information most frequently requested from the Division of Surveys and Mapping are sidewalk widths and the rates of grade of City streets. Unfortunately, this information is in separate files. One such file is the Official Sidewalk Width File which is recorded on 5" x 7" index cards. The other is the Grade Maps File which consists of approximately three hundred and fifty maps drawn up to 1" = 100' scale.

In January, 1963 a program was initiated to consolidate the two aforementioned files in a printed report form. The IBM cards method was chosen because of the success of this type of report in the past; also, IBM equipment was readily available.

The information shown on the final IBM report form for each street between successive cross streets will be: 1) official sidewalk width; 2) ordinance or resolution, with section number, creating or amending said sidewalk width; 3) date of ordinance or resolution; 4) width of street (distance between property lines); 5) constructed sidewalk width; 6) rate of grade between cross streets; and 7) remarks as necessary.

All of the above information was taken directly, or calculated from, the Sidewalk Width File, Grade Maps File, and other maps as required. This data was then key-punched onto IBM cards, from which a listing of all such data was printed on a 11" x 14" form. Once the final form has been checked, additional copies of the report can be reproduced by making additional "printouts."

At present, the data for all of the streets within the Fifty Vara District have been key-punched onto IBM cards and a printed report made for said District. When the report for the whole City has been completed, copies will be issued to other sections within the Bureau. The current methods of presenting the aforementioned information, such as by written or telephone communication, then can be substantially reduced.

SUBDIVISIONS AND STREET CHANGES

TABLE 1-A

SUBDIVISION MAPS

Development of land in San Francisco, because very few large areas in the county remain unimproved, is shifting to Condominium subdivisions and small tracts, the latter often by Record of Survey maps. Maps processed relating to subdivisions follow:

Tentative Subdivision Maps examined and approved:
- Mount Sutro Woods Subdivision No. 1
- Pine Terrace Condominium Subdivision
- Red Rock Hill Unit One Condominium Subdivision
- Green Hill Tower Condominium Subdivision
- Portion of Assessors Block No. 6309
- Diamond Heights, Unit Three

Final Subdivision Maps examined, approved and recorded:
- The Hamilton Condominium Subdivision
- Green Hill Tower Condominium Subdivision
- Vista Francisco Subdivision
- Portion of Assessor's Block No. 6309

Record of Survey Maps examined and recorded:
- Block 41 University Mound
- Portion of Assessors Block 2798 and 2643B
- Portion of Block 6396 - Crocker Amazon Tract
- Portion of Block 19, Paul Tract
- Portions of Lots 3 and 4, Block 13 - West End Map No. 1
- Portion of Assessors Block 3001-A
- Portion of Block 7513 - Diamond Heights, Unit One

STREET DEDICATION MAPS APPROVED AND RECORDED

Widening of Clarendon Avenue from Laguna Honda Blvd. to Stanyan St.
Widening of a portion of Burnett Avenue Northerly of Dixie Alley
Widening of a portion of Emery Lane Northerly of Vallejo Street
Extension of Vermont Street southerly to Kansas Street
Widening of a portion of Romain Street at Market Street
Widening of a portion of Market Street at Merritt Street

STREET DEDICATION MAPS APPROVED AND RECORDED (cont'd)

Widening of a portion of Winston Drive at the Westerly terminus
Widening of a portion of 16th Street southeasterly of Roosevelt Way
Widening of a portion of Armstrong Avenue Easterly of Newhall Street

STREET VACATIONS APPROVED

Fremont Street - Harrison Street to 186.747 feet southeasterly
Endicott Park - Steiner Street to its southerly termination
O'Farrell Street - Steiner Street to Pierce Street
Rankin Street - McKinnon Avenue to Newcomb Street
Oregon Street - Battery Street to 137.50 easterly
Clark Street - Davis Street to Front Street
Oregon Street - Davis Street to Front Street
Front Street - Washington Street to Jackson Street
Burnett Avenue - South of Copper Alley on its easterly side
Alvarado Street - Diamond Street to Castro Street on its northerly side
Drumm Street - Pacific Avenue to The Embarcadero
Baker Street - Marina Boulevard to its northerly terminus
Broderick Street - " " " " " "
Divisadero Street - " " " " " "
Scott Street - " " " " " "
Pierce Street - " " " " " "
Steiner Street - " " " " " "
Fillmore Street - " " " " " "
Webster Street - " " " " " "
Wright Street - " " " " " "
Buchanan Street - " " " " " "
Halleck Street - " " " " " "
Lewis Street - " " " " " "
Fitzgerald Avenue - Fitch Street to Tidelands survey line
Egbert Avenue - Fitch Street to Tidelands survey line, portion of
Donner Avenue - Tide lands survey line to 80 feet southeasterly portion of
Opera Alley - Most northwesterly 70 feet of, northwesterly of Mission Street
Lobos Street - portion at Caine Avenue
Hulbert Alley - 80 foot long portion, northwesterly of Clara St.
Pacific Avenue - Front Street to Davis Street
Pacific Avenue - Davis Street to The Embarcadero
Clark Street - Davis Street to Drumm Street
Drumm Street - Pacific Street to Jackson Street
Jackson Street - The Embarcadero to Drumm Street

STREET VACATIONS APPROVED (Continued)

Oregon Street - Davis Street to Drumm Street
Oregon Street - The Embarcadero to Drumm Street
Davis Street - Jackson Street to Washington Street
Front Street - Washington Street to Clay Street
Ceylon Street - " " " " "
Merchant Street - Front Street to Battery Street
Webster Street - Portion of Air Space between Geary Street and Post Street

CHANGES IN OFFICIAL WIDTHS OF SIDEWALKS

Masonic Avenue - Presidio Avenue and Roosevelt Way
Alvarado Street - Castro Street to Diamond Street on its northerly side
Revere Street - Newhall Street and Third Street
Armstrong Avenue - Southeasterly of Newhall Street
Green Street - Easterly of Jones Street

CHANGES IN OFFICIAL GRADES APPROVED

Emery Lane - Vallejo Street to 137.50 northerly

FIELD SURVEYS

TABLE 1-B

NUMBER OF SURVEYS

A total of 221 field surveys, undertaken and completed by the six survey parties of the Division's Field Engineering Section, comprised the following:

Public Improvement Surveys for:	
Public Assessments and Private Contracts	28 Surveys
Contracts Financed by City	151 Surveys
Site and Lot Location and Topographic Surveys for:	
Bureau of Architecture	3 Surveys
Recreation and Park Department	6 Surveys
Board of Education	None
Real Estate Department	None
Redevelopment Agency	1 Survey
City Attorney	None

Survey fees received by the City for Public Assessment and Private Contracts totaled – $13,015.

EXTENT OF SURVEYS

The aggregate length of field surveys completed totaled 45.04 miles, in addition to which 245.7 acres of topographic surveys were completed. The aggregate length, which was the sum of the various construction project lengths except where not applicable, comprised the following:

Cross sections for street, structure, sewer and drainage design	1.97 Miles
Line and grade for construction of:	
Sewer and drainage systems	5.16 Miles
Street Grading	2.65 Miles
Pavements and curbs	3.59 Miles
Line, grade and cross sections for reconstruction of existing:	
Pavements	1.50 Miles
Pavements including track removal	.03 Miles
Curbs and gutters	None
Subsidence Areas	2.36 Miles
Slide Areas	1.03 Miles
Block, Site and Lot:	
Surveys (boundary lengths)	0.49 Miles
Resurveys (frontage lengths)	None
Reference marks (frontage lengths)	1.43 Miles
Monument lines checked	12.75 Miles
Grade Studies	None
Miscellaneous surveys (not included above)	7.61 Miles
Post-Construction examination of:	
Street grading	1.07 Miles
Sewer and drainage systems	1.67 Miles
Pavement and curbs	1.83 Miles

MONUMENTS

In addition to the aforementioned checking of existing monument lines, 9 survey monuments were reset and referenced and 7 monuments examined for repair and, if necessary, repaired.

PRECISE LEVEL SURVEYS

Precise level bench marks established, and elevations redetermined on existing bench marks totaled 1 requiring the running of approximately 0.1 miles of precise levels in addition to the aforementioned survey mileage.

MISCELLANEOUS SURVEYS AND STUDIES

TABLE 1-C

SURVEY PLATS PREPARED

City College of San Francisco -- Cafeteria Addition -- Topographic Study

San Francisco Zoological Gardens -- Proposed Orangoutang Grotto -- Site Survey

Southwest Senior High School -- Track Layout

McLaren Park -- Proposed Neighborhood Playground -- Topography

Sunnyside Playground -- Boundary and Topographic Survey

OTHER MISCELLANEOUS STUDIES

More than sixty-five (65) miscellaneous drawings were prepared in connection with property acquisition and disposition, street openings, widenings and vacations, and easements, acquisitions and abandonments.

Twenty-two (22) reports regarding City interest in actions to quiet title were made to the City Attorney's office.

One hundred sixty (160) descriptions for deeds to and from the City, involving the Department of Public Works, were checked.

Six (6) appeals from decisions of the City Planning Commission were checked to determine whether the signatures thereon represented at least twenty percent of the property owners within a radius of 300 feet of the property involved so as to qualify the appeals for consideration by the Board of Supervisors.

DIVISION OF STREETS & HIGHWAYS

EVANS AVENUE

Evans Avenue is a major link in the direct route from the central part of the City to the United States Naval Shipyard at Hunters Point on San Francisco Bay. The pavement between Third Street and Army Street showed variable subsidence ranging up to four feet as the road is located on filled ground in the former Islais Creek tidal basin.

The main line of the Southern Pacific (Railroad) Company, a double track on an existing deck type plate girder bridge, crosses Evans Avenue in the vicinity of Selby Street. Column bents support the bridge at the centerline and curb lines of the 30-foot wide roadway.

Evans Avenue is being reconstructed to official grade and a roadway width of 40-feet plus 10-foot sidewalk areas. The present railroad bridge is being removed and a through type plate girder bridge with a clear span over the 60-foot street right of way is being constructed. Vertical clearance will be 15 feet.

Plans and Specifications for the bridge were prepared by the Southern Pacific Company.

The contract, awarded by the City to the M & K Corporation on August 29, 1962, includes the bridge, street construction, drainage facilities and removal, reconditioning and relaying of the 12-inch cast iron high pressure pipe line of the San Francisco Fire Department auxiliary water supply system.

The bridge, costing $482,000, is financed 45% by an allocation from the State of California's $5,000,000-dollar Grade Separation Fund; 45% by the City from gas tax revenue, and 10% by the Southern Pacific Company.

Gas tax funds financed the street work and an appropriation of ad valorem tax paid for the reconditioning of the Auxiliary Water Supply System pipe line.

The traffic on Evans Avenue is being carried on a detour road constructed on Napoleon, Davidson and Rankin Streets. Rail traffic is on a shoofly track on a temporary embankment and trestle constructed by the Contractor. The contract specified an all embankment shoofly structure. However, the Pacific Gas and Electric Company has two underground 110 K. V. electrical transmission lines in Evans Avenue which would have been under the shoofly fill.

The lines carry power from the utility company's Hunters Point Station to downtown San Francisco. The utility determined that the lines could be ruptured by subsidence of the existing fill under the load imposed by the shoofly embankment, and therefore requested that the shoofly be constructed on a pile-supported trestle over their conduits.

Under a series of agreements between the City, Utility, Railroad and the Contractor a trestle was designed and is being built at the sole expense of the Pacific Gas and Electric Company.

The project is scheduled for completion in October, 1964.

WEBSTER STREET WIDENING

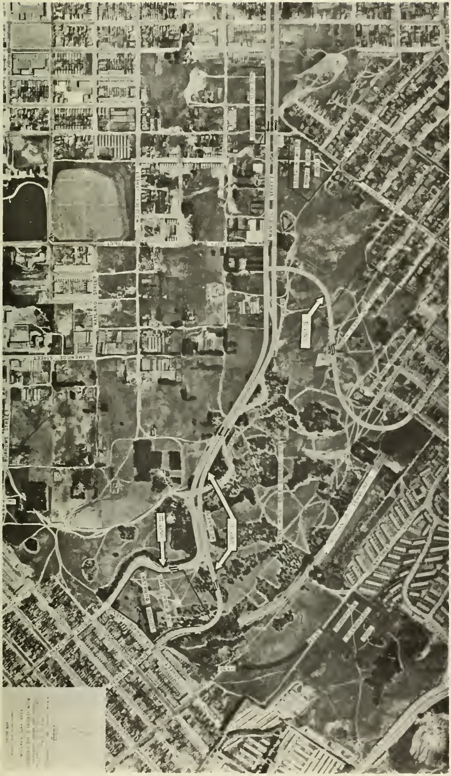
The widening and reconstruction of Webster Street between Post Street and Golden Gate Avenue is the first stage of the major thoroughfare which traverses the heart of Western Addition Redevelopment Area A-1 and A-2. This major city street, a segment of the Master Trafficways Plan, is a 6-lane divided roadway. The contract for this 0.4 mile roadway was awarded March 22, 1962, to the Lowrie Paving Company, Inc., at a contract cost of $265,354.00.

MC LAREN PARK ROADS

A system of new roads, in John McLaren Park, situated in the south-eastern area of the City, is designed to serve the park and the abutting neighborhoods. The system consists of one mile of 2-lane road and 0.7 mile of 4-lane divided road. For the purpose of identification, it is divided into three units. Unit I is the portion that connects Persia Street with Mansell Street; Unit II is the portion that connects Brazil Street with Unit I; and Unit I is the portion that connects Visitacion Avenue with Unit I. Unit I, the backbone of the system, and for the most part a 4-lane divided roadway, is designed to facilitate the east-west vehicular movement across the Park and to link the intrapark roads into a complete network for internal vehicular circulation. Unit III is a 2-lane, 40-foot wide roadway located along the northerly boundary of Luther Burbank Junior High School and provides essential access from Unit I to the facilities on the north side of the school. Unit II is a 2-lane, 46-foot wide roadway designed to provide the north-south traffic movement to and from Visitacion Valley.

Although proposals for developing a park in a large area at the approximate present location of John McLaren Park were made as early as 1905, the area has been left practically in its natural state. To preserve this area, the alignments of the roadways have been care-

(Opposite page - Aerial view of McLaren Park Area)


WOOLSEY STREET
WAYLAND STREET
CAMBRIDGE STREET
BURROWS STREET

fully designed to fit the topography of the area and to keep the necessary grading to a minimum.

Because of the interests in the development of John McLaren Park and the adjacent area, the Department of City Planning and the Recreation and Park Department participated in the planning of this project from its inception.

For the first time the City is using cement treated base in its structural pavement section. The selection is dictated by its strength and economy.

Contract for the roads was awarded on September 20, 1962 to The Fay Improvement Company for $314,830.00.

LAKE MERCED BOULEVARD

Work is completed on the $157,960.00 contract for the reconstruction and alignment of Lake Merced Boulevard between Sunset Boulevard

LAKE MERCED BLVD. BEFORE RECONSTRUCTION

Looking N. W. along ℄ of Lake Merced Blvd. from approx. Sta 2 + 25.

and Winston Drive. The contract for this 0.72 mile 6-lane roadway was awarded on August 22, 1962. The major improvements derived are: 1) improved safe-stopping sight distance; 2) widened lane width; 3) divided roadway; 4) improved vertical alignment; 5) addition of a left turn haven at Middlebrook Drive; and 6) channelized intersections at Sunset Boulevard and Winston Drive. Indirectly the improvement enchances the recreational facilities of the Lake Merced Area.

The Board of Education approved the use of a portion of its adjacent property for a right turn lane from Winston Drive into Lake Merced Boulevard. The Boulevard is designed to accommodate the anticipated increase in traffic volume generated by the new Lowell High School and the expanding San Francisco State College.

LAKE MERCED BLVD. AFTER CONSTRUCTION

Looking N. W. along Lake Merced Blvd. from approx. Sta. 2 + 25.

HOTALING PLACE

Hotaling Place is a narrow street between Montgomery and Sansome Streets running from Jackson Street to Washington Street. It is adjacent to Jackson Square, a landscaped area with stores mostly occupied by interior decorators and antique shops.

The property owners in Hotaling Place decided that it would enhance the beauty of the City if this block were made into a promenade with decorative pavements and planting boxes, but without sidewalks. They formed an association, the Hotaling Place Improvement Group, for this purpose and engaged the services of Thomas D. Church and Associates, Landscape Architects, to design the promenade.

The Group petitioned the City to reconstruct the street along these lines with the proposal that the excess cost between a normal street reconstruction and the landscaped promenade work would be borne by the Group. The extra cost amounted to $8,000 which the Group deposited with the City Treasurer.

The contract was awarded to the Lowrie Paving Company, Inc. on August 1, 1962.

STREET AND SIDEWALK INSPECTION

During the fiscal year 1962-63, the Streets, Sidewalks, Permits and Inspections Section initiated several significant changes in working forms and record compilation, designed to increase the productive quantity.

A new simplified sidewalk repair notice form was adopted.

New forms were devised for claims investigation to speed transmittal of investigator's reports to the City Attorney's office and eliminate secretarial work.

The Standard street space use permit form used in the Central Permit Bureau was reduced in size and revised to meet requirements of standardized operations. The permits, formerly disposed of by Central Permit Bureau, are now retained as permanent office records in the Bureau of Engineering. Automobile driveway permit records are maintained on the same form.

City growth and traffic considerations required the revision of the standard requirements for automobile driveways, and DPW Order No. 62850 replaced DPW Order No. 41345 on January 22, 1963. The revision was prepared in cooperation with the Division of Traffic Engineering.

Frequent placement of debris boxes, scaffolding, and other materials in street roadway and sidewalk areas by homeowners and builders without securing the necessary permit for street space necessitated drafting of a form to be delivered on the premises of suspected offenders. This directs attention to the requirements for permits.

A consolidated resume of standard City requirements relative to driveways, sidewalks, and landscaping was prepared and mailed to all general contractors, builders and architects in the area. This two-page resume, in letter and diagram, shows the elevation points required by plan checkers to process plans prior to permit issuance.

File space conservation was further achieved in the changeover from "Block and Lot" filing method to the "Street-Number" plan now being used by introduction of a standard file block history card, ruled to provide for entries of 26 sidewalk locations on each side. The information on postcards returned by property owners indicating nature and date of sidewalk repairs is now transferred to these file cards, permitting immediate dispatch of postcards to storage cases. These stored postcards are cross-numbered to the office block card for ready reference, since in some cases postmarks and signatures are of significance in claims investigations.

One of the most important improvements in the re-paving of utility trenches is the enforcement of the parallel and transverse cutting and trimming of trenches after base material has been placed and compacted in the trench.

REPORT OF NOTICES, PERMITS ANDINVESTIGATIONS

ITEM	TOTALS
Number of Sidewalk frontages inspected	27,962
Curb lowering permits and inspections	3,123
Ownership addresses researched	1,864
Notices to construct or repair sidewalks	17,475
Notices to remove obstructions, oil, etc.	1,956
Notices to replace side sewer covers	1,662
Street Space permits and inspections	4,815
Sidewalk tank excavation permits and inspections	347
House moving permits and inspections	206
Defects in pavements reported (written)	2,023
Damaged signs reported	316
Excavation permits approved	13,234
Excavation repaving inspected	3,164
Posting Notices of Improvements	142
State Encroachment Permits obtained	19
Asphalt samples for analysis	59
Claims investigations and inspections	514
Special investigations and permits (Blasting, etc.)	3,291
Correspondence answered	291
Personal and telephone calls of complaints or for information	17,264
Citations	
Preliminary Notice to Repair A.S.W. (white)	8,148
Preliminary Notice to Repair A.S.W. (pink)	2,112
Preliminary Notice to Repair A.S.W. (yellow)	10,312
Building Permits	1,875
Dump Inspections	649
Court Time-Briefing, Depositions, Court	190 Hours
Total Inspections	102,250

DIVISION OF RECREATION AND PARK ENGINEERING

STRAWBERRY HILL RESERVOIR
GOLDEN GATE PARK

In 1893, Collis P. Huntington, railroad builder and San Francisco pioneer, presented to the residents of the City a sylvan delight in the form of a 100 foot high waterfall constructed in Golden Gate Park. The falls, which bear his name, cascaded 4,000 gallons of water per minute from a reservoir on Strawberry Hill to Stow Lake presenting a familiar spectacle to old time San Franciscans and a dramatic discovery to visitors chancing on the site unaware.

On July 24, 1962 at 3:50 p.m. disaster struck. Over seventy years of scouring of the structure took its sudden toll. A probable undermining of the upper approach channel occured and the underlying sandy material began washing away, slowly at first, causing a 10-inch water supply main from the reservoir to rupture which triggered a spectacular avalanche that resulted in complete collapse of the old San Francisco landmark.

When this facility will be replaced as it existed is problematical due to the substantial costs involved. However, in addition to its aesthetic value, the waterfall acted as an overflow spillway for the hilltop irrigation reservoir. Consequently, it was important that overlow pro-tection be provided as soon as possible. An emergency was declared by the Director of Public Works and the Bureau of Engineering prepared plans and specifications for the installation of a piped overflow system for the 3/4-million gallons of impounded water. The plans also included the placement of about 400 cubic yards of fill material in a portion of the washout.

While this work is only a stop gap measure it does preserve the stability of the reservoir for the continued maintenance of the green areas in the eastern section of the Park. However, it is hoped that it will not be too long before the scar is replaced with another Huntington Falls.

HUNTINGTON FALLS IN GOLDEN GATE PARK
BEFORE DISASTER STRUCK

STRYBING ARBORETUM AND BOTANICAL GARDENS

Early in 1870 plans for Golden Gate Park were developed by William Hammon Hall, an engineer, who, as the first Superintendent of Golden Gate Park, set aside 12 acres for a botanical garden. This garden was located in what is now the northwest corner of the present Arboretum adjacent to the old pumping plant, the foundation of which can be seen today.

In 1937 the Arboretum was enlarged to encompass an area of 64 acres and renamed The Strybing Arboretum and Botanical Gardens in honor of the late Helene Strybing whose bequest made much of the development possible.

Under the first Director, Eric Walthers, about 44 acres of this area were extensively developed.

FOUNTAIN – STRYBING ARBORETUM

GOLDEN GATE PARK

The present Director, P.H. ''Jock'' Brydon, requested that the garden be further developed and that the Department of Public Works commission Robert J. Tetlow, Landscape Architect, to prepare plans for about 12 acres of undeveloped area to the east of the existing garden. An impressive Gateway, an oval lawn with a fountain at its terminus, and an overlook affording a view of the other areas of the Arboretum were developed. The project was begun in September 1962 and completed in May 1963 for the sum of $150,000.

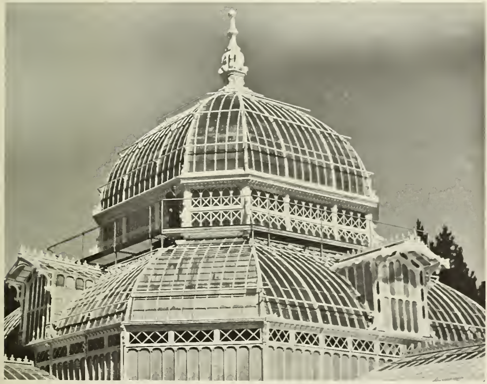
This provides an entrance worthy of an Arboretum that is fast becoming the finest on the Pacific Coast.

GOLDEN GATE PARK CONSERVATORY CATWALK

One of the most popular attractions in San Francisco is the Conservatory in Golden Gate Park. This famous building, modeled after the hothouses of Kew Gardens in London, was completed in 1879. Since the very beginning the central dome, with its high steep slopes and glass surface, has been almost inaccessible for maintenance or routine inspection. Any work performed on the dome has been done with considerable danger on moveable wooden ladders constructed and used by staff members of the Conservatory.

To solve this problem, a catwalk and a series of portable ladders and ring supports were constructed and placed around the upper dome. This had an immediate twofold benefit. The cost of a painting contract for the Conservatory was less that it would have been without a catwalk structure in place. A detailed inspection of the structural members disclosed many areas badly damaged by dry-rot.

These facilities eliminate any possibility of undetected deterioration.



CONSERVATORY — GOLDEN GATE PARK

Note Catwalk and Ladder Rails on Upper and Lower Domes

DIVISION OF DESIGN

GARBAGE DISPOSAL

Since 1932, all garbage and refuse collected in San Francisco has been disposed of by the sanitary fill method in the tidal flats of San Francisco Bay. The method is a sanitary means of disposal, economical and profitable to all concerned, resulting in the reclamation of the tidelands. Two licensed scavenger companies make the collections which are delivered to the disposal site operated through the jointly financed Sanitary Fill Company. The City controls collection rates and enforces public health regulations.

COLLECTION AND DISPOSAL

Unsegregated garbage and refuse is picked up in the residential districts once a week. In the downtown districts, where greater amounts of paper and garbage accumulate, general collections are made three times a week, and at large hotels, restaurants, etc., collections are made daily. The collectors salvage paper, rags, bottles and other revenue items enroute and at the sorting shed prior to the weighing of garbage designated for the fill. Although the refuse trucks have a capacity of about 20 cubic yards, the average load incorporated in the fill is approximately 18 cubic yards.

The scavenger companies collect garbage and refuse six days a week or about 312 days a year. The Sanitary Fill Company operates 5-1/2 days a week from 4:30 A.M. to 3:00 P.M. daily except Saturday when dumping is stopped at 11 A.M., since collections average only about 60% of the normal week day total.

SANITARY FILL DISPOSAL SITE

The disposal site is located just south of the San Francisco--San Mateo County Line on Southern Pacific Company property. It is bounded on the west by the Southern Pacific Company's Bayshore switching yards, on the east by the Bayshore Freeway, and on the south by a dike across Candlestick Lagoon constructed just north of Guadalupe Canal. Earth materials used to cover the garbage are excavated from three areas: one located at the northwest end of the fill site, another northeast of the Sunset Scavenger shop yards, and another on the southern slope of Candlestick Hill. There are now 270 acres of completed fill of which approximately 35 acres are now being used for light industry.

At present the diked off area used for the disposal site has been dewatered and the second lift of fill and cover is approximately 80% complete.

FILL AND COVER OPERATIONS

The Sanitary Fill Company conducts the fill and cover operations through a subcontractor.

The fill and cover method of disposal is essentially a daily garbage fill with an earth seal creating separate cells within the fill. Sandy clay, which forms an excellent seal around the garbage, is available, as well as rock, which is necessary for maintaining the access roads during wet weather operations.

The combined compaction of the garbage fill and earth materials for cover provides a lift of approximately 10 feet in height.

BURNING BANNED

In accordance with the ban on open burning established through the efforts of the Air Pollution Control District, all burning has been eliminated.

SEWAGE NUISANCES AND ODORS

Adequate cover of the daily fill area has reduced the source of odors to a minimum. Occasionally, minor odors emanated from pools of water formed by rainfall on subsidence areas. This nuisance was effectively remedied by the application of earth fill materials in the low areas and the lowering of the water table by pumping the water out of the disposal area.

GARBAGE COLLECTION AND DISPOSAL STATISTICS
CALENDAR YEARS 1961 AND 1962

FILL AND COVER EXPENSE	1961	1962
Operations	$370,585.37	$374,656.63
Road Maintenance	4,263.05	4,554.42
Administration, Inspection Fees, etc.	97,602.19	103,311.70
Ditch, Dike, Fence, Etc. (Amortize 7 years)	27,489.30	27,489.30
TOTAL EXPENSE	$499,939.91	$510,012.05
GARAGE AND REFUSE HANDLED		
City of San Francisco, Tons	302,063.11	304,469.58
Average Quantity Per Day, Tons (312 days)	968.00	977.00
Cost of Disposal Per Ton	1.657	1.675
COVER MATERIAL		
Quantity Used, Cu. Yd.	310,800.00	280,450.00
Total Cost	$183,329.69	$184,536.10
Cost Per Cu. Yd.	$ 0.59	$ 0.66
Cover Per Ton of Garbage and Refuse Cu. Yd.	1.03	0.92
Total Truck Loads of Garbage and Refuse	103,042	104,310
Average Weight per Load of Garbage and Refuse, Tons	2.93	2.89
Estimated Average Weight of Garbage and Refuse per Cu. Yd., Pounds	326	324
TOTAL INCOME	$549,927.76	$563,268.72

INFORMATION FOR TABLE LOCATED IN YEARLY REPORTS FROM EASLEY AND BRASSY.

SACRAMENTO STREET TREE PLANTING

The present policy of the City is to select certain areas where it is intended that the atmosphere and character of San Francisco will be preserved, and to improve such areas by enforcing building code requirements and doing certain public improvement projects.

The first public improvement project in such an area, designated by the Chief Administrative Officer as Conservation Area One, was the planting of trees in the sidewalks along Sacramento Street, between Van Ness Avenue and Presidio Avenue.

The project was part of a program initiated by the recommendation of the Director of Planning in order that code enforcement activities relative to the improvement of private buildings in the area be accompanied, where feasible, by public improvements financed by City funds.

The planting of Sacramento Street will complete the planting of streets running East-West in the area, and as recommended, the program will ultimately also include the north-south streets. In this latter category, plans and specifications are being prepared for planting of trees in the sidewalk areas of Franklin Street.

Trees were selected from a list recommended by the Street Planting Advisory Committee, whose members have a wide horticultural background and who contribute their time to the program. The final recommendations and selections were made on the basis of appearance and consideration of climatic and maintenance conditions.

The climate is quite variable in the area and the success of the project was dependent to a large extent upon the proper selection of species of trees which would tolerate the variation in climate.

The species finally selected and planted were the European Olive, Flowering Oriental Cherry and Carob Tree. A total of 167 trees were planted at a contract cost of $10,817.00.

DIGESTERS AT RICHMOND–SUNSET SEWAGE PLANT CLEANED BY UTILIZING GAS RECIRCULATION METHOD

Preparatory to advertising for bids for the forthcoming construction and installation of external digester heating and gas recirculation facilities, investigations were conducted to determine the most economical method of cleaning the 100-foot diameter primary digester at the Richmond-Sunset Sewage Treatment Plant.

As is common with digesters which have been in operation for long periods, there was an accumulation of grit and heavy solids at the bottom and a lighter floating mass (scum blanket) at the top of the digester. Estimates received from contractors for the removal of these accumulations by conventional methods were as high as $20,000.

After due consideration, it was decided that if a temporary system of gas diffusers were lowered into the digester, and gas pumped into the system, the scum blanket would be gradually broken up and most of the settled solids would become mixed into the liquid, and the resulting homogeneous mixture could be withdrawn by routine operating methods at no additional expense.

Subsequently, the various components necessary for the temporary system of gas recirculation were either purchased, rented, or fabricated by plant personnel.

The installation of this system was completed early in May 1963 and since then has been in continuous operation.

Early in June 1963, the scum blanket was almost completely dissipated and a portion of the settled solids mixed with the liquor. As a result of the mixing, the solid contents of the digester have been dispursed in the digester liquor and plant personnel are now able to easily withdraw the mixture from the digester.

It is anticipated that only a small percentage of the digester contents may have to be removed by mechanical means, thus effecting a saving of several thousand dollars.

LAKE MERCED SEWAGE PUMPING STATION

The Lake Merced Sewage Pumping Station, currently under construction, will feature the City's first variable speed flow-matched pumping system designed to reduce the frequency of maintenance shutdowns caused by the settlement of sand and sewage solids.

In the past, the various lift stations throughout the City were designed for constant speed pumping. Incoming sewage is collected and retained in a large holding basin, or sump, and levels in the sump are sensed by means of float or air pressure. When the level in the sump reaches certain predetermined settings, one or more constant speed pumps are operated by the level controller, discharging sewage into main interceptors leading to the treatment plants. Thus pump operation is intermittent and to equalize the smaller fluctuations of flow and to minimize the frequency of pumping cycles, a large sump is required. As a result of intermittent pumping, sewage solids and sand settle in the sump requiring frequent shutdowns for cleaning. Maintenance of these large sumps has become a major problem.

The concept used in the new Lake Merced Pumping Station is to pump the sewage at a rate to match the flow coming into the station. The changing levels in the sump are sensed by means of pneumatic pressure and automatic controls vary the speed of the pumps. Within the limits of the system requirements and the selected pumps, the pumping rates are varied infinitely to match the flow rates into the station. Variable speed pumping permits the use of a smaller sump and the continuous flow of sewage reduces the settling of solids in the sump area and discharge mains thereby reducing the shutdown periods required for cleaning.

The station is equipped with two vertical dry pit centrifugal pumps with a combined rated capacity of 4700 gpm. Each pump is driven through flexible shafting by a 100-HP electric motor connected to a magnetic slip coupling located above the pump. A high pressure oil hydraulic system in conjunction with the pneumatic sensors controls the influent gate during storm conditions and in case of power failure prevents the station from flooding by automatically closing the influent gate.

Lake Merced Sewage Pumping Station will pump the present and future flows from the Lake Merced drainage area through 7500 feet of 18-inch diameter force main to an existing gravity sewer flowing to the Richmond-Sunset Sewage Treatment Plant.

This station will eliminate two existing smaller stations, Park Merced and Lakeshore, and will effect considerable savings due to lower construction costs and economy of operation due to the consolidation.

Two contracts were let for construction of the system, one in the amount of $237,000 for the Pumping Station, and one in the amount of $156,000 for the construction of the force main and related sewer work.

DIVISION OF TRAFFIC ENGINEERING

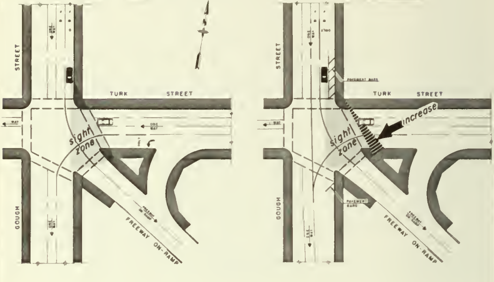
GOUGH AND TURK STREETS – ACCIDENT PROBLEM

The extension of the Central Freeway to the intersection of Gough and Turk Streets greatly increased the traffic volume passing through this intersection. While preliminary measures proved quite successful in preventing any large-scale congestion, it was found that the number of accidents has greatly increased, running at the rate of approximately 35 a year prior to March 1961. Most of these were right-angle or sideswipe accidents. A program of guide line striping, signal timing changes, painted pavement messages and adjusting of lane widths in March 1961 proved very successful in reducing the accident rate, although there were still an average of one right-angle accident a month. Our analysis indicated that this was due to the blind northeast corner of the intersection.

It was felt that if the curb lane traffic on Gough Street was moved westerly, a small increase in sight distance would result which might be beneficial in reducing right-angle accidents. This was done on January 4, 1963, and in the four-month period since then only one right-angle accident has occurred. A typical view for the driver on Gough Street previous to a change on January 1963 is shown in Photograph No. 1; the view afterwards is shown in Photograph No. 2. The accident rates for the different periods are shown in table below:

GOUGH AND TURK STREETS ACCIDENTS

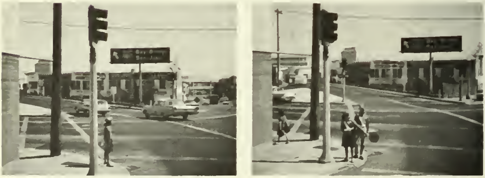
Type of Accidents	Period I 4/22/59-3/19/61 (23 months)	Period II 3/19/61-1/4/63 (21-1/2 months)	Period III 1/4/63-5/1/63 (4 months)
Right-angle	46	21	1
Sideswipe	19	2	1



Before January 1963 *After January 1963*

IMPROVEMENT OF SIGHT ZONE
GOUGH AND TURK STREETS

DRIVER'S-EYE VIEW
AT TURK AND GOUGH STS.



BEFORE
JANUARY 1963

When curb lane was used

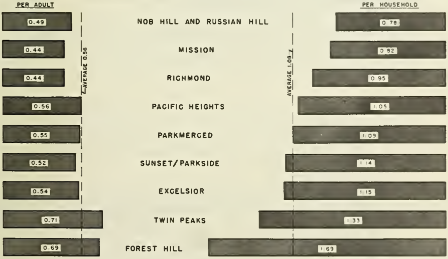
AFTER
JANUARY 1963

When pavement bar eliminated curb lane for traffic

PARKING AND TRIP GENERATION SURVEY

The Department of Public Works has been conducting, by mail a survey which is intended to determine the parking and trip generation characteristics of various types of living units in San Francisco. This information has significance in that it will enable the Department of City Planning to more closely tailor its parking requirements for new living units to actual needs, and will also give better basic information with which to determine the traffic generating capabilities of various types of new living units. While the survey is as yet incomplete, the significant information garnered thus far is as follows:

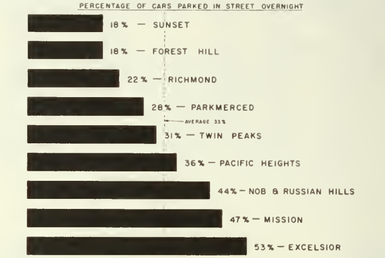
a. Car Ownership
   Car ownership varies from a low of 0.38 cars per adult on Nob and Russian Hills to 0.69 cars per adult in Forest Hills. The average is 0.55. In terms of households, the automobiles range from 0.69 in the Sunset to 1.69 in Forest Hills. There appears to be a tendency for the small households, in terms of adults, to have the fewest number of cars per household, and the fewest number of cars per adult.



CAR OWNERSHIP IN SAN FRANCISCO BY DISTRICT — 1963 SURVEY

b. On-Street Parking Demand

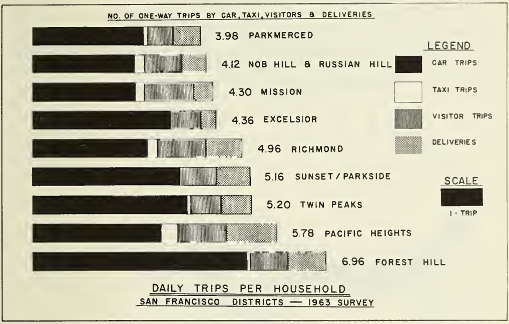
The range of on-street car parking at night varies from 11 percent of the households of the Sunset to a high of 53 percent of the households in the Excelsior District. The City-wide average found thus far is 31 percent.



ON-STREET PARKING DEMAND—SAN FRANCISCO DISTS.-1963 SURVEY

c. Trip Generation

There was a wide variation found in the number of daily trips generated per household (including visitor's trips and deliveries). The one-way trips (trips either beginning or ending at a household) varied from 2.46 in the Sunset to 6.96 in Forest Hills. In addition, it was found that 2-car households use each car almost as intensively as 1-car households, since almost twice as many trips were made by 2-car households as 1-car households.



DAILY TRIPS PER HOUSEHOLD
SAN FRANCISCO DISTRICTS — 1963 SURVEY

USE OF 12-INCH GREEN ARROWS

During the year, for the first time, 12-inch green arrows were used in San Francisco. These were installed on a trial basis because there had been some complaints that the use of arrow shields in the normal 8-inch bulls-eyes reduced the visibility of the green signal considerably. Trial installations were made at the following locations:

FRANKLIN AND OAK STREETS
NINETEENTH AVE. AND JUNIPERO SERRA BLVD.
CROSSOVER DRIVE AND PARK PRESIDIO BLVD.
OCEAN AVE. AND JUNIPERO SERRA BLVD.

Preliminary field observations indicate that the use of the 12-inch green arrows has increased the median visibility of an arrow signal from 161 feet to 262 feet.

REVERSIBLE STREET OPERATION IN THE MARINA DISTRICT

The decision of the Golden Gate Bridge Authority to go to reversible lane operation in the peak hours on the Golden Gate Bridge resulted in the developing of a plan by the Department to handle the increased traffic that would be thrown on the City streets in the peak hours. It was estimated that eventually 1700-1800 additional cars per hour will be on the streets in both the morning and evening peak hours and that 70 per cent of this traffic will use Marina District streets. The distribution of the traffic loads is shown in Figure 1.

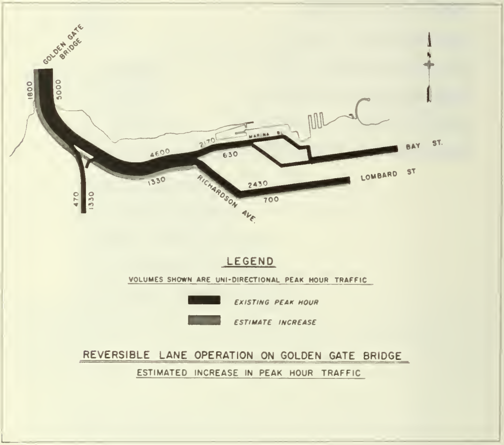

GOLDEN GATE BRIDGE
1800
5000
4600
2170
MARINA BL
630
BAY ST.
1330
RICHARDSON AVE.
2430
700
LOMBARD ST
470
1330
LEGEND
VOLUMES SHOWN ARE UNI-DIRECTIONAL PEAK HOUR TRAFFIC
EXISTING PEAK HOUR
ESTIMATE INCREASE
REVERSIBLE LANE OPERATION ON GOLDEN GATE BRIDGE
ESTIMATED INCREASE IN PEAK HOUR TRAFFIC

Figure 1

To handle the increased traffic loads, several proposals were made:

1. Changes in signal timing and installation of tow-away on the Lombard-Richardson route. It was estimated that increasing the signal cycle to 90 seconds would increase the capacity of the Lombard-Richardson route by about 200 vehicles per hour. The rest of the 500 vehicle per hour increase would have to be taken care of by the installation of No Stopping (TOWAWAY) regulations.

2. Reversible Lanes on Marina Boulevard.
   Additional traffic loads on Marina Boulevard could be handled by tow-away. However, it was felt preferable not to install these in this fine residential district. For this reason, a restriping of streets, together with the reversible lane patterns, was recommended.

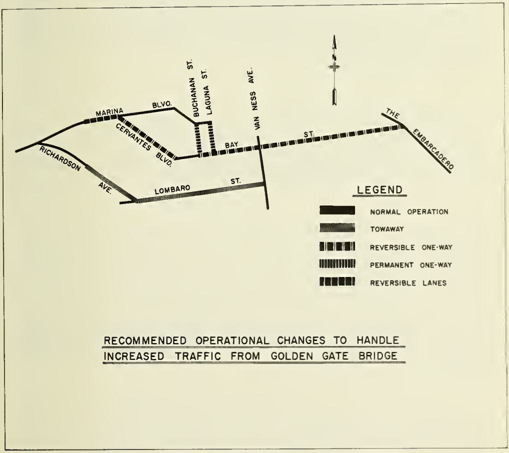


Figure 2

3. Cervantes Boulevard Reversible One-Way Operation.
   Cervantes Boulevard is now crowded beyond its practical capacity in the peak hours, since there is only one lane of traffic in each direction. It was proposed to increase its capacity by 100 percent by instituting reversible one-way operation on this street.

4. Bay Street Reversible One-Way Operation.
   Bay Street also is very crowded in the peak hours, and reversible operation was proposed for this street to increase its capacity.

These proposals were meant to utilize the existing streets. Of course, if a freeway were put in, probably the measures would not be needed. The plan generated considerable interest, and at two public hearings held, much opposition was expressed by residents. At the present time, the proposal is under consideration with the Police Committee of the Board of Supervisors.

CONSTRUCTION DIVISION

INSPECTION — Construction continued at the same pace with projects divided equally between street work and sewerage plus minor electrical and mechanical work, using twenty-five to thirty inspectors and engineers.

Heavier pavements are being used including cement treated base. Closing of streets to through traffic increased the speed of construction. Backfilling techniques were improved due to more soil testing and better specifications. No other significant changes occurred.

LABORATORY AND TESTING — Testing increased ten percent over the previous year with two regular employees plus occasional assistance. It is expected that expanded work load, including that from other City Agencies, will require the testing force to be doubled. New equipment has increased the efficiency and capabilities and further additions will be required for new techniques and increased work.

BUREAU ADMINISTRATION

During the fiscal year 1962-1963, the City Engineer authorized the formation of a Division Staff Committee under the chairmanship of the Assistant City Engineer to meet twice a month for the purpose of examining office procedures, personnel requirements, and the coordination of the planning, design and construction program with other City and public agencies.

The following accomplishments have been realized:

PERSONNEL

The recruiting program for junior engineers has significantly reduced a critical shortage. A comprehensive rotation program has been established for entering junior engineers. A system of assigning personnel between office and field has helped satisfy the relatively variable demand for construction inspection, and now includes provisions for specialty inspection.

PLANNING

The quarterly program is now published monthly in a new form to provide more current information.

Pre-contract conferences have been instituted between resident engineers and designers.

A committee meets monthly with representatives of the utility companies for construction coordination.

A formal policy was adopted regarding notification to contractors on work progress.

OFFICE PROCEDURES

Department Order processing has been simplified by eliminating separate letters of transmittal.

Revocable Permit processing time has been reduced from 10 weeks to 5 weeks by eliminating 8 of the 15 processing steps.

Street Improvement procedures were simplified by reducing the number of Orders and the descriptions in Orders and Ordinances by approximately 50%. The cost of advertising was subsequently reduced.

Side sewer inquiry response was improved by eliminating duplicate investigations.

Street tree planting permits, planning, and inspection were standardized by coordinating inter-bureau activities.

SUPERVISORY PERSONNEL
AS OF JUNE 30, 1963

C. J. Geertz, City Engineer
R. T. Shoaf, Ass't. City Engineer

DIVISION AND SECTION	PERSON IN CHARGE
STREETS AND HIGHWAYS	W. C. Ewing, Engineer
Street Improvement Section	H. G. Louie, Engineer
Highway Section	L. T. Tom, Assoc. Engineer
Street Reconstruction Section	E. J. Sierra, Engineer
DESIGN	G. Galli, Principal Engineer
Structural Section	G. Jeong, Senior Engineer
Sewer Section	R. F. Lauenstein, Acting Sr. Engr.
Sanitary and Special Projects Section	A. O. Friedland, Senior Engineer
Mechanical Section	W. F. Eisenberg, Senior Engineer
Electrical Section	A. E. Tanner, Senior Engineer
Contract Preparation Section	J. Lee, Engineer
Standards, Utilities and Estimates Section	C. T. Beggs, Engineer
Administrative Section	C. J. Brady, Acting Admin. Engineer
RECREATION AND PARK ENGINEERING	G. Harman, Supervising Engineer
Office Engineering	W. Person, Engineer
Field Engineering	B. Cody, Assoc. Engineer
SURVEYS AND MAPPING	S. C. Gerughty, Senior Engineer
Administrative and Records Section	A. Hollett, Ass't. Engineer
Office Engineering Section	G. Q. Woo, Engineer
Field Surveys Section	G. Miller, Assoc. Engineer
CONSTRUCTION	J. D. Roberts, Senior Engineer
Inspection Section	T. J. Ford, Assoc. Engineer
Testing Section	P. Bernard, Engineering Chemist

TRAFFIC ENGINEERING	W. Marconi, Acting Sr. Traffic Engr.
Administration Section	Vacant
Downtown Section	B. Johnson, Assoc. Engineer
Legislative Section	C. M. Lang, Ass't. Engineer
Design Section	N. Bray, Ass't. Engineer
Planning Section	N. O'Boyle, Ass't. Engineer
Operations Section	G. Hansen, Ass't. Engineer
Special Projects	M. S. Bornstein, Acting Engineer
CONTRACT ADMINISTRATION	F. Giusto, Admin. Engineer
LIAISON ENGINEER	H. H. Beneke, Assoc. Engineer
OFFICE MANAGEMENT	F. R. Nichols, Head Clerk

PERSONNEL AT BEGINNING AND END OF FISCAL YEAR:

DIVISION	July 1, 1963	June 30, 1963	Change
Administration	5	8	plus 3
Streets and Highways	33	33	
Recreation & Park Engineering	12	15	plus 3
Design	98	97	minus 1
Surveys and Mapping	30	41	plus 11
Construction	17	28	plus 11
Traffic Engineering	28	28	
Office Management	15	16	plus 1
TOTAL	238	266	28

(1)	Employees in Professional Classification	114
	Employees in Sub-professional Classification	118
	Employees in Clerical Classification	34
		266

RETIREMENTS

During the past year the following employees were retired and recognition is given for their faithful service to the organization:

Lloyd C. Whaley	12-16-62	Assoc. Civil Eng.	39 years
Clarence C. Clifton	1- 1-63	Assoc. Civil Eng.	36 years
Jeremiah J. Crowley	4- 3-63	Jr. Civil Eng.	25 years

IN MEMORIAM

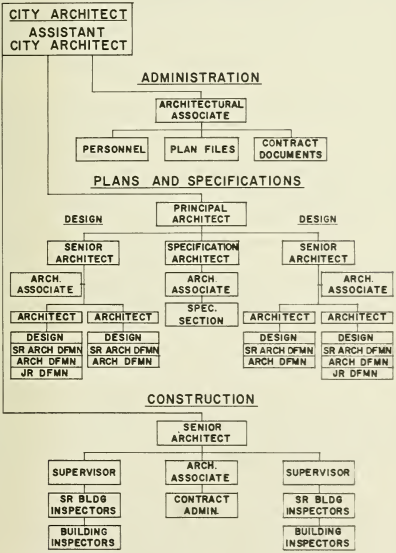
Alan H. Williams	3-12-63	Ass't. Elec. Eng.	16 years

PAYROLL

The following tabulation shows the number of employees and total payroll charged to General, Project and Road Funds:

SOURCE OF PAYROLL FUNDS	EMPLOYEES 1963 - 1963	PAYROLL 1962 - 1963
General Fund		
Budget Payroll	66	$ 615,723.38
Project Funds - (Gas tax, bond, general, etc.)	172	$1,309,811.40
Road Fund		
Traffic Engineering	28	$ 206,620.42
	266	$2,132,155.20

BUREAU OF ARCHITECTURE
DEPARTMENT OF PUBLIC WORKS
ORGANIZATION CHART
JUNE 30, 1963



PERSONNEL 62

BUREAU OF ARCHITECTURE

Charles W. Griffith, City Architect

FUNCTIONS

The Bureau of Architecture has the responsibility for design and construction of new City buildings, and the modernization, remodeling, and such maintenance projects on existing City buildings as may require plans and specifications, or which may exceed $2,000 in cost. The activities of the Bureau are divided into two separate but related general functions: (1) the preparation of drawings, specifications, and estimates; and (2) the supervision of construction.

Once the need for a building project is established, the Bureau assists the Department which will occupy the structure in the preparation of a basic program and the acquisition of a building site. The program consists of general information relative to the functions to be performed in the building, the number and type of employee who will be housed in the building, the public to be served, and related data. The Bureau then prepares preliminary drawings, specifications, and estimates of costs, and when funds are available, the final drawings, specifications, and estimates. The bid forms are then prepared, and the project advertised. After bids are received they are analyzed and recommendations are prepared concerning award of contract. After award of contract, Bureau personnel inspect the work under progress, certifying its completion in comformance with the contract, together with progress and final contract payments.

The amount of work in the Bureau as of July 1, 1963 was as follows:

	No. of Jobs	Amount
1. Preliminary Design Stage	36	$ 7,725,000.00
2. Final Drawing Stage	57	13,600,000.00
3. Under construction	68	14,786,000.00
4. Contracts Completed (1962-63)	117	12,376,000.00
Total	278	$48,487,000.00

In addition, preliminary data has been prepared for five bond issues in total amount of $35,601,155.

ORGANIZATION

The Organization Chart indicates in brief manner the breakdown of divisions which have been found to be efficient in processing the Bureau's work. The City Architect is the Bureau Head and is assisted in discharging his responsibilities by the Assistant City Architect. The organization of the Bureau is broken down into three separate divisions: Administration, Plans and Specifications, and Construction. The responsibilities of these divisions are further defined as follows:

ADMINISTRATION DIVISION

Section I - Personnel

This section is responsible for fiscal arrangements and work orders for both architectural and related engineering services.

Section I - Plan Files

This section is responsible for requisitions and procurement of blueprints, assembly of blueprints, specifications and bid forms, the filing of tracings, blueprints and specifications, and related work.

Section III - Contract Documents

This section is responsible for the assembly, checking, and issuance of the contract documents to contractors who prepare bids for the various jobs.

PLANS AND SPECIFICATIONS DIVISION

The responsibility for processing the various jobs from initial inception to completion of the final drawings, specifications and estimates is divided into four sections. Each of these sections is headed by an architect who not only maintains formal and informal relationships with the client agency but also supervises the personnel assigned to him for the preparation of the drawings and specifications.

CONSTRUCTION DIVISION

This Division supervises and inspects all work under construction. The responsibilities of the Construction Division include progress and validity of the contract work, contract payments, and certification of completion of the contract. The number of contracts under construction is 68, and the amount is $14,786,000.

The Construction Division is headed by a senior architect, and there is a chief building inspector who supervises the building inspectors who are assigned directly to the construction jobs.

A secondary responsibility of the Construction Division is concerned with jobs completed throughout the previous fiscal year. The amount of work which will be done on the completed jobs is indeterminate, but in certain cases will be considerable. A thorough inspection must be made at the end of the year bonded guarantee period one year after the acceptance of the job, and any defect found which is the result of faulty materials or workmanship must be corrected by the contractor. A situation often develops in which much correspondence and many conferences are involved when such defective work is discovered, and considerable time is always required to effect a proper disposition of such cases.

BOND ISSUES

The greatest amount of the Bureau's work consists of the design and construction of buildings for which bonds have been voted. Bond Issue work being processed is as follows:

I. 1956 School Bond Issue $27,000,000.00

All projects of this bond issue were either under construction or completed on June 20, 1962, and the status was as follows:

A. Construction Completed (65%)

	Proj. No.	Name	Amount
1.	135	Starr King School	$ 285,200.00
2.	105	John O'Connell Voc. H. S.	266,046.00
3.	119	Balboa H. S.	26,400.00
4.	121	H. Mann Jr. H. S.	88,712.00
5.	125	Silver Ave. Jr. H. S.	1,035,542.00
6.	124	G. Washington H. S.	107,612.00
7.	150	Polytechnic H. S. (Alterations)	35,374.00
8.	150	Polytechnic H. S. (Kitchen)	96,557.00
9.	150	Balboa H. S. (Athletic Field)	109,670.00
10.	130	Clarendon School (Grading)	4,380.00
11.	150	H. Mann Jr. H. S. (Alterations)	73,510.00
12.	150	H. Mann Jr. H. S. (Library)	46,697.00
13.	150	Roosevelt Jr. H. S. (Playyard)	50,478.00
14.	113	S. E. High School (Grading)	84,444.00
15.	123	Portola Jr. H. S.	463,500.00
16.	132	Longfellow School	844,000.00
17.	120	Francisco Jr. H. S.	578,000.00

18.	101	City College	$	2,245,600.00
19.	119	Lincoln H. S. (Athletic Field)		327,200.00
20.	122	Denman Jr. H. S.		455,183.00
21.	130	Clarendon School		848,849.00
22.	132	J. Ortega School		608,690.00
23.	120	Francisco Jr. H. S. (Yard)		50,000.00
24.	(None)	Fire Department Requirements		2,300,000.00
25.	(None)	Various Alterations		300,000.00
26.	114	Southwest (Lowell) H. S.		4,151,000.00
27.	113	Golden Gate School		575,000.00
28.	(None)	Reconstruction		1,450,000.00
		Subtotal	$	17,507.644.00

B. Under Construction (18%)

	Proj. No.	Name		Amount
27.	113	Southeast (W. Wilson) H. S.	$	4,324,000.00
29.	(None)	Reconstruction		550,000.00
		Subtotal	$	4,874,000.00

C. Equipment (4%)	$	1,500,000.00
D. Miscellaneous Costs and Contingencies (13%)	$	3,118,206.00
Total	$	27,000,000.00

From the above report it is obvious that excellent progress has been made on this bond issue and that all bond jobs will be completed within the money available. Actually, savings were made in bond projects during the past three fiscal years since several projects were awarded for sums less than the estimated construction costs.

In addition to the bond projects, the Jefferson School, destroyed by fire, was replaced at a construction cost of $722,000.00. This school was completed and occupied in February 1963, financed from District funds and the fire loss insurance settlement. Another project, also to be financed from District funds, is the remodeling of the Administration Building, estimated to cost $1,200,000, for which a preliminary estimate has been prepared.

II. 1958 Steinhart Aquarium Bond Issue $1,575,000.00

The work on this bond issue was divided into two parts, a new salt water pipeline from the beach to the Aquarium, and the rehabilitation of the Aquarium. Bids were received on the rehabilitation work on May 4, 1960 and reappropriation of funds was found to be necessary prior to award of contract. The final financial breakdown of the bond issue funds is as follows:

A. New Salt Water Pipeline

1. Construction	$135,000.00	
2. Engineering	20,500.00	
3. Consulting Engineer	9,200.00	
4. Inspection	6,000.00	
5. Unallocated	1,100.00	
Subtotal		$171,800.00

B. Rehabilitation of Aquarium

1. Construction	$1,227,711.00	
2. Inspection	12,900.00	
3. Preliminary Expenses	19,245.07	
4. Architects Fee	104,495.00	
5. Contingent Fund	33,669.22	
6. Miscellaneous Costs	5,000.00	
7. Unallocated	179.71	
Subtotal		$1,403.200.00
Total		$1,575,000.00

It should be noted that some of the work originally intended to be completed in the bond issue will not now be a part of the work. The items omitted are not as urgent as the included work, but will probably have to be budgeted during the next few years.

The complete time schedule for the rehabilitation of the Aquarium is as follows:

1. Bonds voted	June 3, 1958
2. Funds appropriated	October 22, 1958
3. Architects apointed	January 15, 1959
4. Plans and specifications completed	February 15, 1960
5. Bids received	May 4, 1960

STEINHART AQUARIUM
CALIFORNIA ACADEMY OF SCIENCES

Interior — One of the Main Galleries
STEINHART AQUARIUM — CALIFORNIA ACADEMY OF SCIENCES

6. Reappropriation approved	August 26, 1960
7. Rehabilitation work to start	October 3, 1960
8. Phase I completion (18 months)	April 1, 1962
9. Phase II completion (14 months)	June 1, 1963
10. Occupancy and use by public	June 24, 1963

III. 1959 Civic Auditorium Bond Issue $7,575,000.00

The Bond Issue was approved by the Finance Committee of the Board of Supervisors in June, 1959, and upon the recommendation of the Mayor's Bond Screening Committee the amount was reduced by $200,000 which had been previously approved for restoration work at the Auditorium in the 1959-1960 Budget. The amount of this bond issue, approved on the November 3, 1959 ballot, is therefore $7,575,000.

The Civic Auditorium, which is San Francisco's principal convention facility, is obsolescent. Built in 1914, it has not been modernized, and maintenance has not been adequate. While other cities such as Detroit, Los Angeles, Miami, Portland and Las Vegas have completed or are building new convention buildings, San Francisco does not have the space to do likewise. It is also impractical since the location of a new convention building would have to be in the same location as the Civic Auditorium, and the wrecking of the existing building and the building of a new structure would take at least two years, during which time the convention business, for all practical purposes, would be lost. It is therefore essential that the Civic Auditorium which is basically sound both in plan and construction, be completely rehabilitated and modernized so that it can successfully compete with new convention buildings in other cities.

The "Survey of Convention Fucilities Needs in San Francisco", prepared by the Industrial Planning Association, established requirements which must be met in the modernization and rehabilitation work as a part of an organized program to increase San Francisco's share of the convention business from $30,000,000 in 1957 to $72,000,000 in 1980. These requirements are as follows:

1. Rehabilitation of the Main Arena, Polk and Larkin Halls, to serve in the dual capacity of large meeting rooms and exhibit space.
2. Provide 60 small meeting rooms, seating from 40 to 250.

3. Improve the vertical transportation.

4. Replace the obsolete electrical, plumbing, and mechanical systems, provide modern heating, lighting, plumbing and air conditioning systems.

The Bureau's report, revised April 15, 1959, describes in detail the work which will be done to achieve these ends. An estimate of cost and an interruptible construction schedule will provide for completion of the work during periods of non-use of the Auditorium between scheduled conventions and special events. The total estimated cost of this bond issue was $7,575,000. The basic requirements and provisions made to provide for them are listed below:

1. The restoration of the Main Arena and Polk and Larkin halls to serve as both large theathre-type meeting rooms and as exhibit space. While at present these rooms do serve in this dual capacity, their finishes are shabby and obsolete. The ceiling of the original arena is worn out and has been removed, and awning type ceiling installed as a temporary expedient. The acoustics in these three big meeting rooms are poor. The estimate provides for all of the above corrective work plus new seats for Polk and Larkin halls.

2. Sixty meeting rooms seating from 40 to 250, a total of approximately 5,000. The Auditorium now has 16 meeting rooms seating from 30 to 150. The estimate provides 64 meeting rooms seating a total of about 5,200.

3. The improvement of vertical transportation throughout the building. The Auditorium now has satisfactory stairs but only two obsolete passenger elevators. The consultants made a thorough study of this requirement and found that the best solution was escalators connecting every floor of the building, first through fourth, one new elevator, and renewing the other elevators.

4. General renovation of the building. The mechanical system is obsolete and the electrical system is illegal, overloaded, and dangerous. The estimate includes a modern mechanical system with proper heating, ventilating, and air conditioning, and a modern electrical and lighting system. It also includes the renovation of all corridors, miscellaneous rooms, toilets, and the base-

ment. By far the greatest single expense is the new mechanical system which amounts to about one-third of the entire work.

The appropriations which were approved by the Board of Supervisors on January 30, 1960 were as follows:

1. Construction	$6,700,000.00
2. Architect-Engineer fee	528,000.00
3. Department of Public Works costs	227,000.00
4. Equipment	120,000.00
Total	$7,575,000.00

The time schedule for the work was established as follows:

1. Architect-Engineer contract certified	March 7, 1960
2. Advertise for bids	April 12, 1962
3. Bids received	April 25, 1962
4. Contract awarded ($6,623,000)	May 2, 1962
5. Contract certified	June 18, 1962
6. Construction to be completed	January 10, 1965
7. Construction was 60% completed on	July 1, 1963

CIVIC CENTER AUDITORIUM — General View

Looking SE on Polk Street

CIVIC AUDITORIUM
Main Auditorium During Reconstruction

IV. 1959 Palace of Fine Arts Bond issue $1,800,000.00

This bond issue was approved by the election of November 3, 1959. It will be used in conjunction with $2,000.000 provided by the State and $2,000,000 provided from private sources.

The exterior of the building, colonnade, and rotunda will be restored to its original form as nearly as possible, using permanent materials. The bond issue funds, $1,800,000, were intended to be used for conversion of the interior of the large curved hall comprising approximately 110,000 square feet, to house the following:

1. Administrative Offices
2. Studios
3. Theatre including stage
4. Restaurant and kitchen
5. Exhibit space
6. Music Hall and Stage

The estimate was prepared by, and the bonds voted to, the Recreation and Park Commission. Subsequently the Commission requested that the work be undertaken by the Department of Public Works, and the ment. By far the greatest single expense is the new mechanical system which amounts to about one-third of the entire work.

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CIVIC CENTER AUDITORIUM — General View

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1. Administrative Offices
2. Studios
3. Theatre including stage
4. Restaurant and kitchen
5. Exhibit space
6. Music Hall and Stage

The estimate was prepared by, and the bonds voted to, the Recreation and Park Commission. Subsequently the Commission requested that the work be undertaken by the Department of Public Works, and the transfer was effected in June 1960. The funds available for the project are

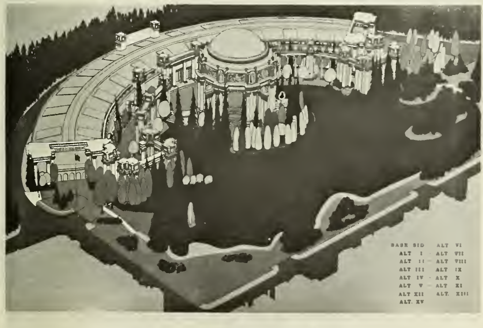
(a) From State	$2,000,000.00	
(b) From private sources	2,000,000.00	
(c) 1959 Bond Issue	1,800,000.00	
	Total	$5,800,000.00
(d) State costs		50,000.00
Total available		$5,750,000.00

The estimate cost of the work, based on the preliminary drawings, is as follows:

1. Rehabilitation		
a. Rotunda	$3,552,980.00	
b. Colonnade	2,784,800.00	
c. Main Building	3,304,000.00	
d. Site Work	328,040.00	
	Subtotal	$9,969,820.00
2. Conversion		2,846,160.00
	Total	$12,815,980.00
3. Available		5,800,000.00
	Deficit	$7,015,980.00

Since the estimated cost of the proposed improvements exceeded the funds available, the Board of Supervisors by Resolution 62-62 adopted the "Cahill Plan". Essentially, the Cahill Plan is a limited scope of work and an estimate based on integral concrete finish in lieu of applied precast finish. Resolution 62-62 also instructs the Director of Public Works to proceed with plans and specifications for all of the exterior restorative work, providing alternate proposals so that the Supervisors may make their final decision concerning the job after receipt of bids. State approval has also been obtained based on the above described conditions.

The preparation of the final drawings started June 29, 1962 and were completed on April 29, 1963. It will take about 3 months to get State approval of the plans, 3-1/2 months to advertise and obtain bids, and 3-1/2 months to get the necessary approvals after receipt of bids, so it appears that the actual work will begin on or around April 1964. The total work of the base bid, "Cahill Plan", is estimated to cost \$6,040,000, of which \$240,000 will be secured from interest on the invested funds. The total work being designed is \$8,141,000, approximately \$2,100,000 more than funds provided, which work cannot be done unless additional money is made available.



THE PALACE OF FINE ARTS
ARCHITECTS FOR THE PALACE OF FINE ARTS HISTORICAL STATE PARK
WILLIAM GLADSTONE MERCHANT & ASSOCIATES, ARCHITECTS & WELTON BECKET & ASSOCIATES ARCHITECTS & ENGINEERS
JULY 1963

V. De Young Museum Bond Issue $2,725,000.00

This bond issue was approved by the electorate in June 1960. It was a Recreation and Park bond issue and the estimate was prepared by a private architect. The purpose of the bond issue is to provide a new west wing for the Museum in which an Oriental Art collection will be housed. This art collection is being presented to the City by Mr. Avery Brundage, contingent upon the City's providing a suitable building for its storage and display.

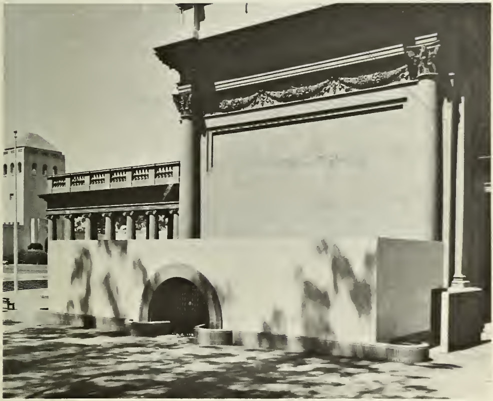
The estimate which formed the basis for this bond issue is as follows:

1960 Recreation and Park Bond issue

a.	Construction estimate 1962 prices		$2,288,832.00
b.	Architects and Engineers fee		160,218.00
c.	Exhibit cases	$240,000.00	
	Architectural fee	16,800.00	
			256,800.00
d.	Soil borings		4,500.00
e.	Full time inspection		10,000.00
f.	Office furniture		4,650.00
	Total		$2,725,000.00

Note: Relocation of present exhibits and remodeling of space on east side, estimated at $182,000, was not included in above estimates.

The estimate shown above was not a Bureau of Architecture estimate, and the design work is not being handled by this Bureau. On June 15, 1960, however, the Board of Trustees requested the Director to take over the job when plans and specifications are completed, and complete the construction. It is therefore expected that the Bureau of Architecture will be assigned this job upon completion of the drawings, possibly in the spring of 1964, and that we will proceed with the construction of this facility.



GOLDEN GATE PARK

Band Stand — Rest Rooms

PROPOSED BOND ISSUES

I. Public Welfare Building $3,545,000.00

At the request of the Director of Public Welfare the Bureau prepared an estimate for a new public welfare building during the past fiscal year. This new building of 100,000 sq. ft. area, is intended to house all of the scattered facilities and personnel of the Department. The bond issue was not approved, however, in the elections of November 1961 and June 1962 although it may be presented to the electorate at a later date.

The estimate is as follows:

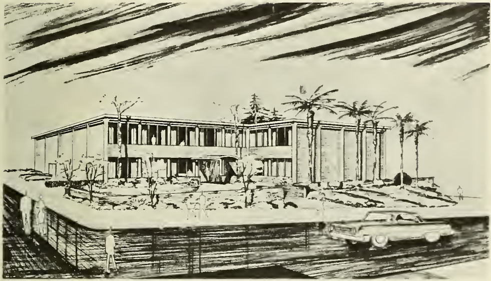
1. Construction	$2,270,000.00	
2. Plans and Specifications	203,000.00	
3. Inflation	300,000.00	
4. Equipment	170,000.00	
5. Property	602,000.00	
Total		$3,545,000.00

II. District Health Centers $3,416,000.00

At the request of the Director of Public Health an estimate was prepared for five new district health centers as follows:

District No. 1 Pond, Prosper and 17th Streets	$664,800.00	
District No. 2 Vicinity of Scott and Ellis Streets	667,400.00	
District No. 3 4th and Clara Streets	948,000.00	
District No. 4 21st Street and Potrero Avenue (San Francisco General Hospital)	595,500.00	
District No. 5 Quintara St. and 29th Avenue	536,900.00	
Total		$3,412,600.00

However, this bond issue was not approved by the Board and has not yet been placed on the ballot.



EUREKA - NOE
DISTRICT HEALTH CENTER

III. Civil Courts Building and Remodeling of City Hall $22,150,000.00

During the spring of 1957, the Bureau working in close cooperation with the architects for the Civic Center Development Plan, the advocates of a new courts building, and the Municipal Conference, prepared estimates for this proposed work. The bond issue is based on the report of the Architects and Engineers for the San Francisco Civic Center Development Plan, dated May 7, 1957. In their survey of existing conditions at the Civic Center, the consultants found that:

"Facilities which are now provided in the Civic Center have become over-crowded requiring the use of temporary structures and rental properties. In many cases, offices are scattered and no provision for expansion is available. The present permanent spaces have become largely outmoded. It is essential that

> additional space be provided and that existing space be rehabilitated to provide efficient up-to-date accommodations that are suitable for the functions to be housed in them."

As a solution to the space problems, the consultants recommended:

1. The construction of a new Civil Courts Building on Marshall Square to house the Municipal and Superior Courts, and all their attendant facilities, at an estimated cost of $16,207,254.
2. The remodeling of the City Hall to provide office space for the Mayor, Chief Administrative Officer, Board of Supervisors, and the majority of the City and County Departments at an estimated cost of $7,918,462.
3. The future construction of an Annex Office Building across McAllister Street from City Hall, in the block bounded by McAllister, Van Ness, Polk, and Redwood Streets. This building would be needed in the future, but since it was not urgently required at present its construction should be deferred until a later date.

The total amount of the bond issue recommended by the consultants is as follows:

1. New Civil Courts Building	$16,207,254.00
2. Remodeling of City Hall	7,918,462.00
Total	$24,125,716.00

This amount was later modified in conference with interested citizens and public officials by the reduction of facilities and space as follows:

1. New Civil Courts Building	$14,379,450.00
2. Remodeling of City Hall	7,770,550.00
Total	$22,150,000.00

The bond issue was approved by the Mayor's Bond Screening Committee on June 3, 1957, the Finance Committee on June 5, 1957, and by the Board of Supervisors on June 10, 1957. The bond issue was defeated in the November 1958 and 1959 elections by narrow margins. It will probably be revived at a later date after other facilities which are more urgently needed have been provided.

IV. Public Library $5,190,155.00

Data was prepared for this bond issue which included rehabilitation and additions to the Main Library building and nine new branch libraries in time so that it could be presented on the November 1957 ballot. However, it did not receive the support of the Mwyor and Downtown Organization, and therefore was not on this ballot.

The 1962-63 budget provides $8,000 for an integrated Library-Consultant architectural study of the Main Library which will very probably result in a recommendation for a bond issue to rehabilitate and expand the library building in the Civic Center.

V. M. H. de Young Museum

The 1962-63 budget provides $20,000 for a study of the Museum and the development of a master plan. This will probably result in a bond issue for much needed facilities for the Museum.

VI. Public Health Institutions

The 1962-63 budget provides $125,000 for a study of the three main institutions — San Francisco General Hospital, Laguna Honda Home, and Hassler Health Home. This study will probably result in the recommendation of a new medical health center to house all three institutions.

VII. Palace of Legion of Honor

$8,000 is provided in the 1962-63 budget for a study and the preparation of an estimate for a storage facility for the Palace. It is believed that this study may result in a bond issue as it appears of a nature which will cost in excess of that usually approved by the budget.

VIII. Fire Department Headquarters Building $1,300,000.00

$35,000.00 is provided in the 1962-63 budget for the preparation of preliminary drawings, specifications and estimate for a new Fire Department Headquarters Building. The building because of its excessive cost will probably have to be the result of a bond issue.

LOG CABIN RANCH

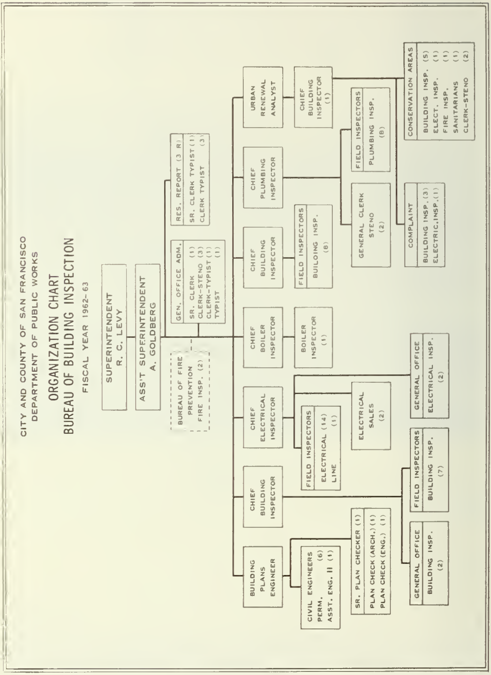
General View

PERSONNEL

The total permanent allowance of personnel in the Bureau is 62, but 10 permanent positions were not filled. Because of the lack of lists and the great amount of school vacation jobs this summer, it was necessary to employ 5 temporary employees. The total employees as of June 30, 1963 were 59.

	30 June 1962		30 June 1963		Change	
	Perm.	Temp.	Perm.	Temp.	Perm.	Temp.
City Architect - 5124	1	0	1	0	0	0
Ass't. City Arch. - 5122	1	0	1	0	0	0
Senior Architects - 5270	0	0	3	0	+3	0
Architects - F-108	9	0	6	0	-3	0
Sr. Arch. Draftsmen - 5338	10	0	10	0	0	0
Arch. Draftsmen - 5336	8	0	8	0	0	0
Jr. Arch. Draftsmen - 5334	0	0	0	0	0	0
Jr. Civil Draftsmen - 5360	1	0	1	0	0	0
Jr. Clerk - 1402	1	0	1	0	0	0
General Clerk - B-222	1	0	1	0	0	0
Sr. Clerk - B-228	1	0	1	0	0	0
Gen. Clerk Steno. - B-408	4	0	4	0	0	0
Gen. Clerk Typists - B-512	4	0	4	0	0	0
Chief Bldg. Inspector - 6258	1	0	1	0	0	0
Bldg. Inspector - 6254	16	7	12	5	-4	-2
Total	58	7	54	5	-4	-2

Total Personnel 59


CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS
ORGANIZATION CHART
BUREAU OF BUILDING INSPECTION
FISCAL YEAR 1962-63
SUPERINTENDENT R. C. LEVY
ASS'T SUPERINTENDENT A. GOLDBERG
BUREAU OF FIRE PREVENTION FIRE INSP. (2)
GEN. OFFICE ADM. SR. CLERK (1) CLERK-STENO (3) CLERK-TYPIST (1) TYPIST (1)
RES. REPORT (3 R) SR. CLERK TYPIST (1) CLERK TYPIST (3)
BUILDING PLANS ENGINEER
CIVIL ENGINEERS PERM. (6) ASST. ENG. II (1)
SR. PLAN CHECKER (1) PLAN CHECK (ARCH.) (1) PLAN CHECK (ENG.) (1)
CHIEF BUILDING INSPECTOR
GENERAL OFFICE BUILDING INSP. (2)
FIELD INSPECTORS BUILDING INSP. (7)
CHIEF ELECTRICAL INSPECTOR
FIELD INSPECTORS ELECTRICAL (14) LINE (1)
ELECTRICAL SALES (2)
GENERAL OFFICE ELECTRICAL INSP. (2)
CHIEF BOILER INSPECTOR
BOILER INSPECTOR (1)
CHIEF BUILDING INSPECTOR
FIELD INSPECTORS BUILDING INSP. (8)
CHIEF PLUMBING INSPECTOR
GENERAL CLERK STENO (2)
FIELD INSPECTORS PLUMBING INSP. (8)
URBAN RENEWAL ANALYST
CHIEF BUILDING INSPECTOR (1)
COMPLAINT BUILDING INSP. (3) ELECTRIC. INSP. (1)
CONSERVATION AREAS BUILDING INSP. (5) ELECT. INSP. (1) FIRE INSP. (1) SANITARIANS (1) CLERK-STENO (2)

BUREAU OF BUILDING INSPECTION

Robert C. Levy, Superintendent

The functions and organization of the Bureau of Building Inspection have been covered in detail in past reports, and the organization is indicated on the organization chart in this report. For details of the Bureau operation, the reports of the fiscal year 1958 and 1959 are referenced.

Briefly, the function of the Bureau is to insure compliance with the City Building, Housing, Plumbing, and Electrical Codes, the State Housing Act, the State General Safety Orders as well as other laws. The Bureau accomplishes the function by means of reviews of plans, and the inspection of construction, alteration and installation involving structural, electrical, plumbing, and certain mechanical work throughout the city. In addition, it inspects existing buildings and structures to obtain their compliance with the applicable laws. The Bureau also proposes new legislation affecting buildings and structures and analyzes and reports on legislation proposed by other departments and by the State.

During the 1962 fiscal year the Bureau of Building Inspection activities were generally grouped into the following major areas.

A. Bureau Operations
B. Codes
C. National Activities
D. Miscellaneous Activities

The following will expand upon these general areas with regard to specific work and problems:

A. Bureau Operations

1. As in previous years, the Bureau had a shortage of inspection and supervisory personnel. Although the number of permits increased by about 20% and dollar-volume increased about 70%, no increase in the Bureau staff was allowed to service these large increases.

In order to provide a greater degree of supervision to building inspection field operations some internal reassignments were made, particularly with regard to the Complaint Division, which was placed under Urban Renewal, and the Chief Inspector that had formerly handled this Division was assigned about half the regular field building inspectors to supervise in addition to his previous duty of supervising the counter personnel. This shift weakened our office staff and has caused some problem by having our Field Inspectors under two separate authorities of equal rank; however with no additional supervisory personnel added to the staff, it was the only course available.

The dollar-volume for this year was the largest in history of the City and probably second only to the aftermath of the 1906 earthquake in actual construction after adjustment of the value of the dollar.

2. Urban Renewal. The Urban Renewal Division, Conservation Section, has been in operation in conservation areas for 3-1/2 years. These areas generally have good housing and good neighborhoods but are showing evidence of deterioration and the purpose of the program is to stop this deterioration and prevent the development and spread of blight. All buildings in these areas are inspected and reports made to the owner. Public meetings are held prior to commencing inspections. Three new conservation areas were designated in November 1962. Public meetings were held on Great Highway and Glen Park conservation during the past year. The five designated areas are Pacific Heights, Visitacion Valley, Glen Park, West Nob Hill, and Great Highway and these contain 7277 structures with 18,387 dwelling units and 40,000 persons. 3532 of these structures have already been inspected. The following is a summary of our activities in these areas through June 30, 1963:

Area	Date Designated	Total Bldgs.	Buildings Inspected	Violations Detected*	Buildings Brought Into Code Compliance**
Pac. Hgts. (Areas 1 thru 5)	Nov. 1959 Apr. 1961	1875	1438	1171	494
Vis. Valley	Oct. 1960	2079	1823	1154	577
Glen Park	Nov. 1962	1230	51	27	0
West Nob Hill	Nov. 1962	974	148	132	18
Great Hwy.	Nov. 1962	1155	72	50	18
Total Bldgs.		7277	3532	2534	1127
Total Dwelling Units (Est.)		18387	12482	9156	3574

*Including permit & non permit code violation.

**Does not include bldgs. found in compliance at time of inspection.

Alteration permits issued in these areas during the past year averaged $78,600 per month. This is ten times the average value of permit work done in the five years prior to designation of these areas; 25% of the $2,610,362 worth of permit work was above code requirements.

In Pacific Heights private construction of new buildings since the inception of the Conservation Program is valued at $15,320,352 and has added 664 new dwelling units to the area.

In the West Nob Hill area alteration permits issued since the program began there ten months ago average $42,800 per month, which is four times the average value in the five years preceding designation of the area.

The Complaint Section of the Bureau has been transferred to this division, thus assuring more uniformity in procedure between programs.

3. Community Renewal Program. This very important study was awarded to the Arthur D. Little Company of management consultants. The study involved the general planning future of San Francisco. A part of this study and the first segment to be reported on in late 1963 relates to the inspection services of the City, Building, Health, and Fire. Out of this study it is hoped will come recommendations that will improve the city services, increase efficiency, and result in economic savings to the community.

The study was somewhat delayed due to financing problems, but final award was made in the early spring 1963 and is now under way.

4. Training of Inspection Personnel. A regular training program based upon the section-by-section review of the Building Code was instituted for all Building Inspectors and other interested persons in enforcement. This program is under the Superintendent so that all enforcement and interpretation of the Code is on a uniform basis. Group discussion is encouraged to clarify understanding of Code intent. Inspectors of this Bureau attended at least one of seven sessions of a course in Community Relations conducted by an Industrial psychologist and professor at San Francisco State College. Each session consisted of five three-hour meetings. In addition, 90 inspection personnel from other code enforcement departments attended these sessions. This course was sponsored by the Code Enforcement Subcommittee of the Interagency Committee on Urban Renewal.

Arrangements were handled by the Civil Service Department and the San Francisco Unified School District. A similar course may be presented in the next fiscal year for supervisory and administrative personnel in code enforcement.

5. Report of Residential Records — See 1961 Report. This division issued 6538 reports concerning properties being sold. In addition, 1934 waivers were received where buyers chose not to demand reports from sellers of property. Field inspections, which are voluntary, of property number eight each, paid for by fee.

B. Codes

1. The amendments to the San Francisco Building Code, which were under study since 1961, were passed by the Board of Supervisors in July 1962.

Further amendments are under study, following the procedure described in the 1961 Annual Report, by industry and it is expected to be submitted to the Board of Supervisors in the fall of 1963.

One amendment proposed will change the requirement from annual code review to a mandatory review every three years. This will ease the workload on both the Bureau and industry. Major items requiring addition or correction to the code will be submitted as necessary, however.

2. Work was started on a complete re-write of the San Francisco Plumbing Code by the Assistant Superintendent. It is expected that drafts of the new code will be ready for distribution for review by industry in late 1963.

3. Citation procedure for code violation. The Board of Supervisors has under study an ammendment to the San Francisco Administrative Code which would ease code-enforcement process by allowing inspection departments to cite recalcitrant code violators without requiring their being arrested and booked as criminals.

4. Activities with the International Conference of Building Officials. The Superintendent and Assistant Superintendent were active on the masonry and roofing subcommittees of I.C.B.O. to rewrite these areas of the Uniform Building Code.

The Bureau of Building Inspection, in preparing code changes to our code, recognizes those changes to the Uniform Building Code which are adopted from year to year and, upon study of these changes proposes similar legislation when appropriate, for the amending of the San Francisco Building Code. In this way the San Francisco Code is brought into agreement with the Uniform Building Code in those requirements where our special needs do not require different code requirements.

The Superintendent was elected a vice-president of the newly formed California Chapter of I.C.B.O. This chapter has as its purpose the field of State legislation affecting the building official in California and has, in the 1963 Session of the Legislature, proven a vital organization in the protection of local government.

5. State acts and regulations. The Bureau was involved to a considerable extent in review and commenting upon proposed State regulation with regard to housing (Title 8) and the State Fire Marshal (Title 19).

The Superintendent was appointed to advisory committees with regard to both these State codes. These committees were advisory to the State Building Standards Commission, which is the State agency that is charged with the review of all State regulations to avoid duplicating conflicts and overlapping of State laws.

The efforts of the Bureau were not successful, however; and it is anticipated that serious problems will arise with regard to State rules and the City codes.

C. National Activities

1. Fire Council, U. L. The membership of the Superintendent on the Underwriters Laboratories Fire Council has proven invaluable to the Bureau. As a member, he reviews all fire testing prior to acceptance by U. L. He also receives many reports dealing with related building matters from U. L. As a member he can obtain detailed information on a problem or test which otherwise he might not be able to receive.

Meetings with U. L. representatives and exchange of ideas have opened many new areas of examination to improve testing methods and job inspection procedures.

2. American Society of Testing Materials. The use of ASTM standards is necessary to control the quality of materials used in construction. The Bureau has requested the ASTM to consider

changes in its present standards of fire testing with regard to protection of structural steel. Attendance at the Los Angeles meeting of ASTM enabled an exchange of views with the foremost experts in the field of fire testing and resulted in better understanding by the testing agencies of the building officials' problems.

3. Damageability of fireproofing. The Bureau in April 1963 adopted criteria to control the ease of damageability of fireproofing materials. As there was no machine available to test this factor, the Bureau developed such a machine as it believed would best determine the factors involved and, after testing several products, established criteria of passage.

The spray-on type fireproofing materials for the protection of structural steel were the main source of problems and it is hoped that, with the aid of this machine, the damage problem will appreciably be lessened. The machine will be employed to determine whether a material is to be accepted for use in San Francisco and is not a field-testing device.

4. High test temperatures of structural steel. At the end of the last fiscal year the Bureau had adopted the temperature criteria limitation for fire-test review of structural steel members protected by fireproofing. Request was made of the American Society of Testing Materials to change the standards in this regard. The problem involved the testing of fireproofing on steel, which test permitted the steel temperatures to exceed the allowable limits of load-carrying ability of steel, yet not penalize the fireproofing for this excessive temperature rise.

All fireproofings, since this Bureau ruling, have been reviewed, using the temperature-limiting criteria, and all previous approvals have been similarly modified to account for the excessive temperatures.

STATISTICAL SUMMARY

BUILDING INSPECTION DIVISION

Type of Construction	1961-62 No. of Permits	1962-63 No. of Permits	1961-62 Est. Cost	1962-63 Est. Cost
1A	18	28	14,877,362	70,884,317
1B	8	4	9,917,080	5,757,393
2	--	2	--	1,161,300
3	27	39	5,299,574	4,872,805
4	29	32	1,948,675	2,508,350
5	1,051	1,136	53,187,550	54,416,770
Alterations	11,556	13,487	30,069,234	46,272,105
Totals	12,689	14,728	115,299,475	185,873,040

Type 1A	- Steel frame with reinforced concrete walls and floors, Fire-resistive construction.
Type 1B	- Built entirely of reinforced concrete. Fire-resistive Construction.
Type 2	- Similar to Type 1, but with limitations.
Type 3	- Wood frame floors with exterior walls of masonry. Ordinary masonry construction.
Type 4	- Light incombustible frame construction.
Type 5	- Wood frame construction.

BUREAU STATISTICS FOR FISCAL YEAR	1961-62	1962-63
Inspections reported by building inspectors	63,817	56,354
Projects remaining on which permits have been issued that have not been reported completed by building inspectors	5,390	6,074
Complaints reported that have been adjusted by building inspectors	3,788	3,394
Inspections reported by boiler inspectors	1,438	1,886
Complaints received and adjusted - Boiler and air tanks	Not Available	32
Complaints and requests for information recorded	200	200
Applications for permits examined and approved by plan checker	1,583	1,512
Miles traveled during the year by vehicles on inspection service	312,408	312,470

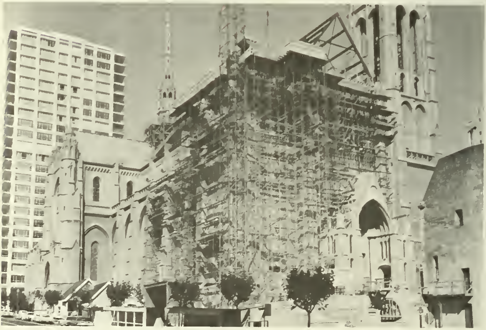
PLUMBING INSPECTION DIVISION

Plumbing permits issued	4,272	4,285
Sewer repair or replacement permits	372	317
Plumbing installation removals		2
Water permits issued	1,007	1,123
Water permits combined with plumbing	3,246	3,355
Gas piping and appliance permits	15,824	15,721
Gas permits on plumbing	5,345	4,923
Gas installation removals	7	0
Plumbing inspections made	16,286	15,268
Water inspections made	3,816	3,904
Water installation removals	2	0
Plumbing complaints investigated	941	923

PLUMBING INSPECTION DIVISION (Continued)	1961-62	1962-63
Condemnation reports	43	42
Gas piping complaints investigated	3	8
Gas appliance complaints investigated	354	101
Plumbing installations completed	5,456	5,129
Gas lines inspected final	4,088	4,462
Gas appliances approved	13,442	11,783
Installations uncovered that were without permit and upon which penalties were assessed	37	14

ELECTRICAL INSPECTION DIVISION	1961-62	1962-63
Permits issued, wiring and signs	13,166	13,866
Inspections made	38,616	40,933
Complaints investigated (found defective)	3,311	3,584
Installations uncovered that were not with permits	2,393	(est.) 2,548
Installations in progress as of June 30, 1962	4,947	5,712
Installations completed	12,712	13,074
Pin ball machine inspections	462	466
Juke box inspections	76	42
Inspections for nursing and boarding homes for ambulatory patients	198	166
Night club inspections	70	128
Spray booth inspections	58	20

TELEPHONE BUILDING
Folsom and Hawthorne



GRACE CATHEDRAL
California and Taylor

LAGUNA TOWERS
Sacramento and Laguna

THE FONTANA WEST
North Point and Van Ness

1200 CALIFORNIA
California and Jones

ORGANIZATIONAL RELATIONSHIPS

MAINTENANCE, REPAIR & OPERATION

1962 – 1963

DIRECTOR
S. Myron Tatarian

Assistant Director for Maintenance & Operation
Arvid H. Ekenberg

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT
W. B. Jones, Superintendent

FUNCTIONS
1 – Maintain and Repair Sewerage System.
2 – Operate and Maintain 15 Sewage Pump Stations.
3 – Operate and Maintain 3 Sewage Treatment Plants.
4 – Control Industrial Waste Discharge to Sewers.
5 – Conduct Air and Water Pollution Surveys.
6 – Provide Advisory Service to other City Department on Sewage Treatment.

PERSONNEL ALLOWANCE	
(a) Budgeted	222
(b) Non-Budgeted	20
(c) Assigned from other Bureaus and Departments	10
(d) Contract Employees on Hired Trucks	5
TOTAL	257

TOTAL EXPENDITURE	
Budgeted by Bureau	$2,469,417

BUREAU OF STREET REPAIR
C. F. McFadden, Superintendent

FUNCTIONS
1 – Maintain and Repair Public Streets.
2 – Operate and Maintain 3 Lift Bridges.
3 – Operate and Maintain Asphalt Plant.
4 – Operate Granite Curb Yard.
5 – Operate and Maintain Broadway Tunnel.
6 – Operate and Maintain Underpasses and Overcrossings.
7 – Maintain and Repair Certain Street Structures.
8 – Perform Work for Other Bureaus and Departments by Work Order.

PERSONNEL ALLOWANCE	
(a) Budgeted	174
(b) Assigned from Other Bureaus	1
(c) Contract Employee on Hired Truck	1
TOTAL	176

TOTAL EXPENDITURE	
Budgeted by Bureau	$1,837,837

BUREAU OF BUILDING REPAIR
J. S. Rutherford, Superintendent

FUNCTIONS
1 – Maintain and Repair Certain Public Buildings.
2 – Provide Maintenance and Repair Services and Personnel on an Interdepartmental Basis to other City Agencies.
3 – Provide Operating and Custodial Personnel in Certain Public Buildings.
4 – Conduct Engineering-Architectural Surveys and Prepare Reports on Certain Public Buildings.
5 – Paint Street Traffic Striping and Markings on Work Order Basis.
6 – Repair Certain Street Structures and Sidewalks Fronting on City Property.
7 – Maintain Street-Name Signs on Work Order Procedure.

PERSONNEL ALLOWANCE	
(a) Budgeted by Bureau	341
(b) Assigned from Other Bureaus	2
TOTAL	343

TOTAL EXPENDITURE	
Budgeted by Bureau	$3,833,598
Funds from Other Sources	$1,214,113
	$5,047,711

BUREAU OF STREET CLEANING AND PLANTING
B. M. Crotty, Superintendent

FUNCTIONS
1 – Clean Public Street Surfaces.
2 – Clean 11 Pedestrian and Vehicular Underground Structures.
3 – Clean 195 Pedestrian Stairways.
4 – Control Weeds on Numerous Public Lands and Properties.
5 – Operate 19th Avenue Garage and Office, Sunset Boulevard Office Storeroom and Shop and Nursery at the Southeast Sewage Treatment Plant.
6 – Maintain 140 Acres of Landscaping and 7100 Street Trees.
7 – Promote and Coordinate Litter Control Programs and Tree Planting Programs Independently and in Cooperation with Various Civic Groups and Committees.
8 – Provide Technical Assistance to Engineers, Architects and Builders in Landscaping and Tree Planting.
9 – Operate Department of Public Works Radio KME 327.
10 – Confiscate, Transport, Inventory, and Store "A" Boards and Other Advertising Matter Illegally Placed on Public Streets and Sidewalks.

PERSONNEL ALLOWANCE	
(a) Budgeted by Bureau	362
(b) Assigned from Other Bureaus	3
TOTAL	365

TOTAL EXPENDITURE	
Budgeted by Bureau	$3,051,842

SUMMARY

Total Personnel Allowance. . . . . $	1,141
Total Expenditures, less reimbursements	$12,406,807

MAINTENANCE AND OPERATION

ARVID H. EKENBERG, ASSISTANT DIRECTOR OF PUBLIC WORKS

GENERAL

The maintenance and operation functions of the Department of Public Works are composed of the four bureaus of Sewer Repair and Sewage Treatment, Street Repair, Street Cleaning and Tree Planting, and Building Repair, with a total of 1141 employees. Functional and organizational relationships of the various bureaus are indicated in other sections of this report.

During the past year the safety program has been considerably enlarged, with many new innovations in procedures and improvements in working conditions. Lost time injuries for the 4 bureaus decreased by approximately 2-1/2% during this period. Recommendations for improvements continue to be received from all groups, which are evaluated by the staff safety committee and put into effect as quickly as possible when found practical to do so. Installation of safety belts in all cars is now well under way, as is the outfitting of personnel with bright colored vests where exposed to traffic hazards. A particularly enthusiastic response was obtained in the safety training classes for foremen and supervisory personnel, at which mouth to mouth resuscitation procedures were taught. In cooperation with the safety consultants of the National Safety Council, Yard Bureaus worked in the preparation of standardized safety rules and regulations for maintenance and operation personnel, copies of which will be distributed to each employee when printed.

PERSONNEL

Personnel allowances, as budgeted by the four bureaus, totalled 1119. In addition, 16 employees from other bureaus and 6 contract employees on hired trucks are assigned to the Maintenance and Operation Bureaus. This represents a reduction of six employments over that appropriated for the preceding fiscal year.

EXPENDITURES

Expenditures for Maintenance and Operation bureaus amounted to $11,192,694 from budgeted appropriations and $1,214,113 from funds received by work order, or a total of $12,406,807. A breakdown of expenditures and per capita costs follows:

	Total Expenditures	Per Capita Cost (Based on a population of 715,609 recorded by Federal Census of 1960)
Street Repair	$1,837,837	$ 2.57
Sewer Repair & Sewage Treatment	2,469,417	3.45
Building Repair	5,047,711	7.05
Street Cleaning and Planting	3,051,842	4.26
Total	$12,406,807	$17.33

DEPARTMENT OF PUBLIC WORKS
MAINTENANCE AND OPERATION
DAYS WORKED WITHOUT LOST TIME INJURY
BUILDING REPAIR 18
SEWER REPAIR & SEWAGE TREATMENT 8
STREET CLEANING & PLANTING 6
STREET REPAIR 30
Think Safety Act Safely!

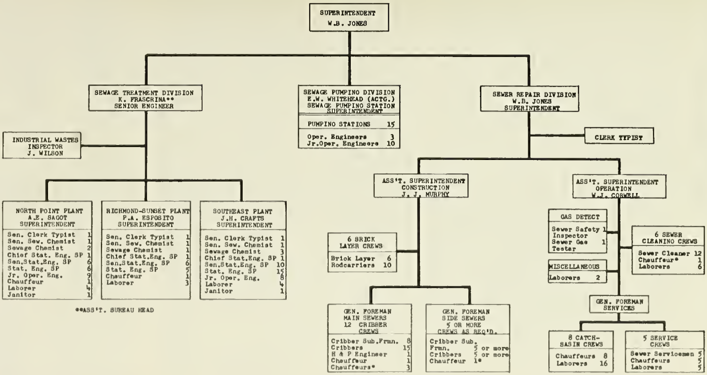
NEW SAFETY BULLETIN BOARD AT
ARMY STREET YARD

ORGANIZATION CHART

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1963



**ASS'T. BUREAU HEAD

* HIRED WITH TRUCK

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT

W. B. Jones, Superintendent

The Bureau of Sewer Repair and Sewage Treatment is responsible for the maintenance and operation of the City's sewerage system including main sewers and interceptors, pumping stations, treatment plants and outfalls. It is divided into 3 divisions: Sewer Repair, Sewage and Waste Treatment, and Sewage Pumping. The Sewer Repair Division maintains and repairs public sewers and appurtenant structures and services mosquito complaints originating in drainage catchbasins. The Sewage and Waste Treatment Division operates and maintains 3 primary sewage treatment plants, conducts sanitary surveys on shore waters, regulates and controls industrial wastes discharges to sewers, analyzes air samples for pollutants and advises other City departments on the maintenance and operations of their sewage treatment facilities. The Sewage Pumping Division operates and maintains 15 sewage pumping stations.

There was no change during the year in the number of personnel. The Sewage and Waste Treatment Division remained at 100, with 14 for Sewage Pumping and 108 for Sewer Repair. Thus the total budgeted employees for the Bureau was 222. These employments were supplemented by one clerk-typist for Sewer Repair and 9 maintenance personnel for Sewage Treatment, all assigned from other bureaus and departments and 5 chauffeurs hired with their trucks on a contractual basis by Sewer Repair. In addition, the Sewer Repair Division has a varying number of non-budgeted employments (20 are authorized) who perform new construction and repairs in connection with side sewers and who are paid by assessments against affected property owners. Thus there are a maximum of 257 employments under the control of the Bureau. Actually, there are normally from 6 to 10 less than this because of varying side sewer employments which depend upon activity in the building industry.

During the year the Bureau suffered a loss through the untimely death of Mr. Eugene Gartland, an engineer who had for many years been assigned to this Bureau by the Bureau of Engineering. Mr. Gartland has not been replaced and much of the work which he performed has been discontinued.

The accompanying chart shows the organization of the Bureau by major functions and personnel. It also shows the names of those holding administrative positions.

The budget expenditures for the fiscal year totaled $2,469,417, of which $1,216,835 was for treatment plants and industrial wastes control, $137,411 was for pumping stations and $1,115,171 was for sewer maintenance and repair activities. In addition, the Sewer Repair Division expended $217,544 for side sewers paid for by property owners and $2,675 on work orders from other departments.

In early July, 1962 the Potrero Hill cave-ins resulting from the fire in the Western Pacific tunnel caused the destruction of the main sewers in the intersections of 19th and Arkansas and in Missouri between 20th and Sierra. Under the emergency that was declared, this Bureau installed a temporary pumping station at each location to by-pass the sewage flow. These pumping stations were removed upon completion of the reconstruction of the roads and sewers by the contractor under the jurisdiction of the City Engineer.

In addition to the Potrero Hill incident, there were 8 occasions when it became necessary to declare emergencies to enable the Bureau to complete the repair of broken sewers where it appeared that it would be impossible to complete the repairs within the $2,000 Charter limitation. It is not practical to have such repair work done by contract since it is usually not possible to tell what is to be done until the street has been opened and usually an unsanitary condition exists which does not allow time for contract procedures.

PERSONAL SERVICES	Sewage Treatment	Sewage Pumping	Sewer Repair
Permanent Salaries*	$ 649,119	$ 97,082	$ 83,830
Overtime*	1,122	141	1,428
Holidays*	17,335	3,897	903
Temporary Salaries*	29,935	3,243	
Wages (Per Diem)	117,055		843,440
Sub-Total	814,566	104,363	929,601
CONTRACTUAL SERVICES			
Power and Gas	105,980	22,408	
Plant Equipment	61,549	4,485	
Field Equipment	5,836	214	37,438
Sludge Disposal	19,537		
Landscape Maintenance	15,674		
Miscellaneous Services	4,549	1,014	12,825
Hired Trucks			45,255
Sub-Total	213,125	28,121	95,518

MATERIALS AND SUPPLIES	Sewage Treatment	Sewage Pumping	Sewer Repair
Replacement Parts	36,394	1,152	810
Field	324		42,246
Plant	17,988	1,350	
Fuels and Lubricants	2,826	397	13,044
Treatment Chemicals	117,819		
Sub-Total	175,351	2,899	56,100
EQUIPMENT			
New	2,895	2,028	1,421
Replacement	10,898		32,531
Sub-Total	13,793	2,028	33,952
TOTAL	$1,216,835	$137,411	$1,115,171

*For Monthly Employees

SEWER REPAIR DIVISION

The Sewer Repair Division cleans, repairs, maintains and makes minor additions to the various components of the sewerage system including main sewers, side sewers and appurtenant structures. The Division also tests for explosive and other gasses which may be found in the sewer system.

In order to organize the work, the personnel are divided into units or working groups consisting of sewer cleaning units, eductor units, service units, main pipe sewer units, bricklayer units, side sewer units, gas detection unit, material trucks, digging unit and compressor unit. While many of these groups frequently assist each other, the latter three may be considered almost entirely subsidiary in that their principal function is to assist other units in the performance of their work. A summary of the activities of these working units is to be found in the accompanying tabulation.

SEWER CLEANING

Sewer cleaning units clean main sewers, pumps and tanks at pumping stations and treatment plants, do miscellaneous work in connection with sewers and handle complaints occasioned by storms when service crews cannot handle all calls.

Sewers are normally cleaned by buckets dragged between manholes. Other methods used are rodding of pipe sewers and manual cleaning of large sewers. Many miles of sewers are also cleaned by flushing rather than the more laborious methods.

There are 6 sewer cleaning units, each consisting of 2 sewer cleaners and one laborer equipped with a specially designed truck containing the necessary equipment such as hoses, hand tools, buckets, cable and power hoists.

Routine activities during the year were principally in the North Beach, Marina and South of Market districts. However, emergency activities such as the grease problems at Fisherman's Wharf and the Lower Financial District and removal of sand from the sump at the Yosemite Pumping Station required so many man hours that the time available for routine activities was quite limited. However, the sump at the Yosemite Pump Station has just been remodeled by the Bureau of Engineering and trouble from this source is expected to decrease.

EDUCTOR OPERATIONS

An eductor unit consists of a truck mounted Elgin eductor with a gasoline powered pump and tank manned by a chauffeur and 2 laborers. Its principal function is the cleaning of catchbasins, but being a very versatile unit, it is put to many other uses where a source of water is needed or where pumping is required. There are normally 8 eductor units operating with 2 additional machines for standby.

SERVICE UNITS

Service units service complaints from the public and other sources, wet down main and side sewer backfills, flush sluggish or temporarily clogged pipe sewers, establish the necessity for specialized work by other crews and do miscellaneous emergency work.

Each of the 5 crews consists of one sewer cleaner, one chauffeur and one laborer and uses a one-ton truck with a special utility body equipped with hoses, lights, barricades and other tools and equipment. Four of the crews are on regular day work and the fifth unit works evenings from 4 p.m. to midnight. No weekend work is scheduled.

Service crews spent 52.0% of their time on service calls and 48.0% on other work. During the fiscal year a total of 20,145 calls were made, 6,176 on complaints and 13,969 on other work including mosquito abatement.

The following tabulation shows the breakdown of work done by type of work and number and percent of calls:

	Calls			
TYPE OF WORK	Number		Percent	
Side Sewer				
Relieved clogged sewer	2,578		12.8	
Found trouble inside property	990		4.9	
Wet down construction backfill	128		0.7	
Determine if side sewer exists	613		3.0	
Found side sewer broken	265	4,574	1.3	22.7
Main Sewer				
Found main sewer broken	544		2.7	
Relieved clogged sewer	521		2.6	
Examined condition	1,025		5.1	
Wet down construction backfill	195	2,285	0.9	11.3
Catchbasins and Manholes				
Remove obstruction	421		2.1	
Replace cover	240		1.2	
Silence noisy cover	205		1.0	
Examine condition	606	1,472	3.0	7.3
Miscellaneous				
Service lights and barricades	268		1.3	
Investigate seepage and leaks	375		1.9	
Clean at pump stations	347		1.7	
Deliver materials to job	44		0.2	
Remove deposits on sidewalk	17		0.1	
Mosquitoes	10,682		53.1	
Not classified	80	11,813	0.4	58.7
Total		20,145		100.0

A comparison of this tabulation with that of the previous year reveals some rather noteworthy changes. It will be noted that there has been a reduction of back-fill wet-down. This because the increased work load on these units has necessitated assigning more of this work to eductors to the detriment of catch basin cleaning. The large increase in the examination of main sewers and those found broken reflects the deteriorating condition of our sewers. This is made especially noticeable when a warm period softens pavement after a relatively wet winter has caused many washouts at sewer breaks. The large increase in the number of services for mosquitoes does not reflect a proportional increase in the mosquito work load, but rather, an increase in the efficiency with which these matters are handled. There has been an increase in mosquito complaints largely due to the fact that people have learned that they can in many cases obtain relief by calling this bureau and the bureau has learned to handle them on more of a "mass production" basis.

MAIN PIPE SEWERS

Cribbing crews excavate, lag and backfill main sewer trenches, lay pipe in the 6- and 8-inch sizes, excavate and lag and backfill for structure repairs, cut pavement and do miscellaneous work. When conditions are right these crews are frequently assisted by the digging unit. There are normally 11 cribbing crews each consisting of a cribber and a cribber sub-foreman although this arrangement is subject to some variation to suit conditions. One of the crews is assigned to the compressor unit and thus spends most of its time cutting pavement for the other crews.

BRICKLAYER WORK

Bricklayer crews repair main brick and concrete sewers, construct and repair manholes and catchbasins, lay sewer pipe and do miscellaneous brickwork when required.

There are two types of bricklayer crews, top crews and underground crews. A top crew consists of a bricklayer and a hodcarrier equipped with a 1-1/2 ton truck. Their functions are to repair catchbasins and manholes, lay pipe in trenches and do miscellaneous brickwork. An underground crew consists of a bricklayer and 2 hodcarriers equipped with a trailer mounted tool box. Their function is the repair of large brick and concrete sewers which can be worked on from inside the sewers.

SIDE SEWERS

Side sewer crews excavate, lag and backfill sewer trenches and lay sewer pipe. A cribber and a cribber sub-foreman normally constitute a crew and the number of crews varies with the demand for this type of work which is dependent upon activity in the building industry. Three of the crews are motorized and carry sufficient tools, equipment and materials to complete a job and move without delay. Non-motorized crews are equipped with trailer-mounted tool boxes and must be moved by the hired trucks. Since side sewers belong to the fronting property owners, all side sewer construction and repair is at the property owner's expense. All such work is done by thie bureau except where side sewer construction is included with main sewer construction under public contract.

GAS DETECTION

The primary function of the gas detection unit is to conduct a continuing City-wide testing and inspection survey of the sewerage system and the supervision of the use of gas detection equipment by underground workers. Tests for explosive and toxic gases are made at sewer manholes and at special locations such as pumping stations and sewage treatment plants. The gas most frequently detected is methane which usually results from leakage in gas mains and services.

The Gas Detection Unit also assists actively in the maintenance of safety standards in connection with all work in the Sewer Repair Division.

The unit is also in charge of the photographing of the interior of sewers. During the year, 15,627 feet of main sewer were photographed. These photographs have proved invaluable in establishing the condition of sewers.

MATERIAL TRUCKS

Five trucks together with their drivers are hired on a contractual basis to assist in the work of the Division. These trucks haul materials and equipment to jobs, remove waste material to dumps and move non-motorized units from one location to another. One of these trucks is assigned the duty of visiting all jobs on Saturdays, Sundays and holidays and seeing that all lamps and barricades are in proper order.

DIGGING UNIT

This unit consists of a combination front-end loader and back-hoe which is manned by an operating engineer, universal. This unit assists in any excavation work where the danger of damage to other utilities is not excessive.

COMPRESSOR UNIT

The compressor unit consists of a truck mounted compressor together with its tools manned by 2 cribbers and a chauffeur. It is used to assist other groups, principally main sewer crews, in opening streets for excavation.

WORK AND COST DISTRIBUTION - SEWER REPAIR DIVISION

Work Unit		Per-cent			Totals			Unit Cost
1	Sewer Cleaning	90.2	Cleaning Sewers	$ 113,067		520,206	Lin. Ft. Cleaned	$ .22
		9.8	Other Work	12,298	$ 125,365			
2	Educator Operations	62.5	Cleaning Catchbasins	96,164		14,598	Basins Cleaned	6.59
		37.5	Other Work	57,776	153,940			
3	Servicing	52.0	Servicing Complaints	63,986		6,176	Complaints	10.36
		48.0	Other Work	58,884	122,870			
4	Main Pipe Sewer Repairs	100.0	Repairing Pipe Sewers	190,072	190,072	6,011	Lin. Ft. at 400 Locations	31.62
5	Brickwork	56.5	Repairing Brick Sewers	76,693		14,319	Lin. Ft. Repaired	5.36
		6.3	Building Catchbasins	8,586		13	Catchbasins Built	660.48
		8.2	Building Manholes	10,993		14	Manholes Built	785.23
		7.1	Repairing Catchbasins	9,679		345	Catchbasins Repaired	28.05
		14.5	Repairing Manholes	19,610		614	Manholes Repaired	31.94
		7.4	Repairing Concrete Sewers	10,072	135,633	1,889	Lin. Ft. Repaired	5.33
6	Side Sewer Work	82.2	Installations	158,454		418	Installations	379.08
		16.3	Repairs	31,436		111	Repairs	283.21
		1.5	Connections	2,866	192,756	42	Connections	68.24
7	Gas Detection	18.8	Testing Manholes	2,302		2,241	Manholes Tested	1.03
		81.2	Other Work	9,964	12,266			
8	Work Orders				2,675		Not Applicable	
9	Miscellaneous				39,790		Not Applicable	
	Total Not Including Work Unit 6				782,611			
	Total For Work Unit 6				192,756			
	GRAND TOTAL				975,367			

NOTE: The Costs tabulated here do not include overhead of other indirect charges.

SEWAGE AND WASTE TREATMENT DIVISION

GENERAL

The Sewage and Waste Treatment Division operates the North Point, Richmond-Sunset and Southeast Sewage Treatment Plants, controls discharge of industrial wastes, and gives advice on operation of sewage treatment facilities under jurisdiction of other City Departments.

The Bureau of Engineering designs capital improvements. Major repairs and maintenance requiring services of specialized crafts are done by other Department bureaus and the Purchaser's shops. The Park and Recreation Department maintains landscaping.

The three plants operated continuously during the year except for limited shutdowns for repairs. Construction of the Shafter and Griffith diversion structure and sump reconstruction at the Yosemite Pumping Station reduced flow to the Southeast Plant during the year. Remaining areas still discharging untreated sewage to the bay will be connected to the plants on completion of the connecting sewer and pumping station construction program now underway.

An experimental gas recirculation system was installed in the primary digester at the Richmond-Sunset Plant to investigate design factors for improvements being made under bond issue funds.

SEWAGE TREATMENT METHODS

At each plant sewage is treated for removal of oil, grease, floating material, grit, and settleable solids. Grit from all plants and screenings from the North Point and Southeast Plants are hauled by truck to the garbage fill south of the county line. At the Richmond-Sunset Plant screenings are incinerated and sludge is digested in two-stage digestion, elutriated, and dewatered by vacuum filtration. Filter cake is hauled to City parks for use as a soil conditioner. Raw sludge from the North Point Plant is pumped to the Southeast Plant where it is treated together with raw sludge from the Southeast Plant. Treatment consists of thickening, two-stage digestion, elutriation and vacuum filtration. Except for a small portion used in City parks, vacuum filter cake is hauled under contract to the garbage fill south of the county line for burial.

TREATMENT PLANT OPERATION

The following table summarizes data on flows, material removed, chemicals added and products handled and power and gas purchased for the three plants.

	North Point	Richmond-Sunset	Southeast
Sewage Flow, million gallons			
Total (a)	17466	6150	5638
Avg. day	47.9	16.8	15.5
Avg. day, dry weather (b)	45.2	16.7	14.8
Max. day, wet weather	92.0	24.4(c)	25.9(c)
Max. day, dry weather	51.9	18.3	23.9
Max. rate, wet weather	120	30(c)	42(c)
Max. rate, dry weather	75	30	27(d)
Screenings, cu. ft.			
Total	36625	12840	36940
Max. day	238	77	228
Per million gallons	2.1	2.1	6.6
Grit, cu. ft.			
Total	64387	48920	77037
Max. day	972	450	945
Per million gallons	3.7	8.0	13.7
Chlorination, lb. (3e)			
Pre	480640		38560
Post	1078510	465800	46340
Total	1559150	465800	84900
mg per liter dry weather	13.5	11.8	42.2
Sludge Solids, M lb (dry)			
From sedimentation	22751		32896(f)
To digesters (g)		6277	43302
Filter cake		273	8511(h)
Ferric Chloride			
Total, lb		15790	530350
% filter cake solids		5.80	6.23
Gas Production, M cu. ft.			
Total		22390	212181
Avg. day		61	581
Power and Gas Purchased			
Power, total M kwh	5200.8	1809.2	4208.4
Power, avg/mo, M kwh	433.4	150.8	350.7
Natural gas, total C cu. ft.	67892	38116	760
Natural gas, avg/mo, C cu.ft.	5658	3176	63
Hauling			
Trips, grit and screenings	601		369
Trips, grit and filter cake		456	
Trips, filter cake to parks			223

NOTES:

(a) For 364.6 days North Point, 365 days Richmond-Sunset, 364.1 days Southeast.

(b) Excluding days with .01 inch or more rain and dry days following days with .05 inch or more rain.

(c) Flow restricted during storms to avoid overloading grit handling facilities.

(d) Estimated; throttling of head gate obscures true flow.

(e) North Point: prechlorination continuous; postchlorination March through November and during extended dry weather periods in winter months. Richmond-Sunset: postchlorination continuous except during storms and on 6 days of chlorinator malfunctioning. Southeast: combined pre and postchlorination 16.5 days during July and August to test effect on bay waters.

(f) Includes recirculating load from raw sludge thickening and digested sludge elutriation overflows.

(g) From raw sludge thickening.

(h) 12,570 tons (wet basis) hauled under contract to garbage fill at $1.58 per ton and 1,184 tons (wet basis) used by City.

COST OF OPERATION

Based on an estimated contributory population of 770,000 the cost of operation was approximately $1.58 per capita.

MAJOR MAINTENANCE

NORTH POINT PLANT:

Reconstruction of "C" lift pump.

Replacement of sedimentation tank scum collecting spray water piping.

Reconstruction of No. 3 grit tank collecting mechanism.

Reconditioning No. 1 main sludge pump.

Renewing cross collector in No. 6 sedimentation tank.

RICHMOND-SUNSET PLANT:

Relining ferric chloride storage tank.

Reconditioning sand washer in Pretreatment Building.

Replacement of lighting control transformer in Main Building.

SOUTHEAST PLANT:

Reconditioning sludge collectors in No. 3 sedimentation tank.

Repair of spalled surfaces and installation of fiberglass liners in 2 sludge measuring flumes.

Repair of tar paper roofs on 5 digesters in Group I.

SPECIAL STUDIES AND INVESTIGATIONS

1. Completed:

    Use of oxidant spray for odor control.

    Methods for starting digesters.

    Solids separation by centrifuging and air flotation.

2. Continuing:

    Identification of source in leak and seepage complaints.

    Sanitary survey of shore waters.

    Chlorine demand of sewage on off hours.

    Effect of mechanical flocculation and preaeration on sedimentation.

    Correction of grease deposition in Fishermans Wharf sewers.

Air pollution level at ocean beach.

Radiological monitoring of wastes.

Use of raw sludge thickening overflow in elutriation.

Comparison of vacuum filtration coagulants.

Solids separation in elutriation with coagulants.

INDUSTRIAL WASTES

The industrial wastes engineer position was reclassified to Industrial Wastes Inspector at a lower salary range by the Civil Service Commission on July 1, 1962 and remained unfilled until April 1963.

Major effort was directed to elimination of industrial wastes causing pollution of Islais Creek.

SEWAGE PUMPING STATIONS

GENERAL

The Sewage Pumping Division operates and maintains 15 sewage pumping stations which are divided into 3 Districts corresponding to the tributary districts of the North Point, Richmond-Sunset and Southeast Treatment Plants. Their primary purpose is to prevent pollution of recreational beaches and shore waters by intercepting and boosting sanitary flow from low-lying areas of the City into main interceptors leading to the treatment plants.

These stations are generally designed and constructed for capacities sufficient to handle all sanitary sewage and in addition, to take care of a rainstorm of 0.02 inches per hour. All stations, with one exception, are provided with overflow spillways so that run-off beyond the capacity of the stations is discharged into the ocean or bay. In most cases, the stations have sufficient capacities so that one pumping unit can be shut down for repairs during the dry season. Pumping equipment for each station is electrically operated by line starters energized by a combination of float switches which are activated by the periodic (or abnormal) rise and fall of the sump liquid level. One station (Commercial Street), has a gasoline engine driven standby pump. All stations except 3 are unattended. Operators are on duty from 8 a.m. to midnight at the Commercial Street and Marina Stations. At Sea Cliff No. 2, an operator is on duty from 8 a.m. to 4 p.m. These shifts are required to assure continued operation and to prevent flooding of basements in the downtown business area and pollution of recreation beaches and shore waters in the Yacht Harbor, Aquatic Park and Phelan Beach areas.

PERSONNEL

During the fiscal year, there was no change in Division personnel except those reclassifications resulting from the Jacobs Report. The 14 budgeted employees were required for the following services:

Administrative:	One Superintendent In charge of the Division's Budgeting, Supervisory, Personnel. Operational and Maintenance programs.
Supervisory:	Three Senior Stationary Engineers Each under general supervision of the Superintend-

ent in charge of the Division: supervised subordinate personnel and performed related operational and maintenance duties as required for stations assigned within a district.

Maintenance and Operation:	Four Stationary and six Junior Operating Engineers Each under supervision of a Sr. Stationary Engineer in charge of a district: performed related duties as required for assigned stations.

SEWAGE PUMPING STATIONS
EXPENDITURES & UNIT COST DATA
1962-1963

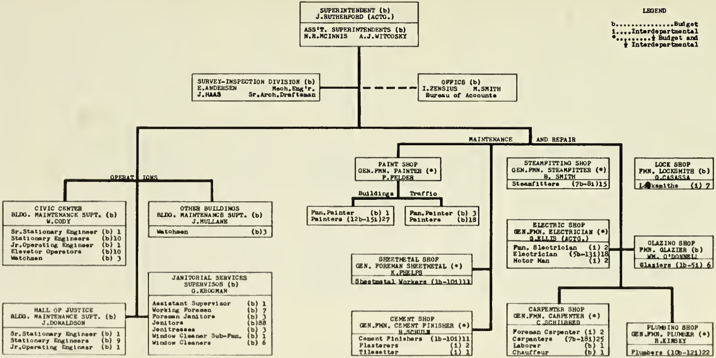
			Expenditures						Unit Cost Per M. G. Pumped					
				Contractual						Contractual				
Location	Drainage Area in Acres	Million Gallons Pumped	Salaries	Mainten-ance	Heat Light & Power	Materials & Supplies	Equip-ment	Totals	Salaries	Mainten-ance	Heat Light & Power	Materials & Supplies	Equip-ment	Totals
General	-	-	$ 6,287	$ 225	$ 20	$ 321	$ -	$ 6,853	$ 1.26	$ .05	$ -	$ .07	$ -	$ 1.38
Commercial St.	93	308	19,057	141	1,343	189	-	20,730	61.87	.48	4.36	.61	-	67.32
Fitzgerald Ave.	30	54	543	5	415	71	-	6,034	10.06	.11	7.67	1.31	-	19.15
Fourth St.	138	90	1,971	20	625	39	-	2,655	21.90	.22	6.94	.44	-	29.50
Fulton St.	82	74	1,465	15	935	7	-	2,422	19.80	.20	12.64	.09	-	32.73
Hunters Point	90	128	2,488	25	940	2	-	3,455	19.44	.20	7.34	.01	-	26.99
Hyde St.	14	30	546	158	189	54	-	947	18.20	5.28	6.30	1.79	-	31.57
Lakeshore	152	242	3,439	721	1,528	7	-	5,695	14.21	2.98	6.31	.03	-	23.53
Marina	1,125	2,289	37,559	1,263	6,680	1,255	-	46,757	16.41	.55	2.92	.55	-	20.43
Mariposa St.	117	239	4,698	62	1,353	50	-	6,163	19.66	.25	5.66	.21	-	25.78
Park Merced	212	281	5,782	61	3,002	112	-	8,957	20.58	.22	10.68	.40	-	31.88
Pinelake	3	4	357	5	91	-	-	453	89.25	1.25	22.75	-	-	113.25
Sea Cliff #1	4	3	202	5	46	-	-	253	67.33	1.67	15.33	-	-	84.33
Sea Cliff #2	83	116	2,442	1,979	1,546	359	-	6,326	21.05	17.06	13.33	3.09	-	54.53
Vicente St.	52	73	1,655	118	653	-	-	2,426	22.66	1.61	8.95	-	-	33.22
Yosemite Ave.	527	1,048	15,873	911	3,042	432	2,028	22,286	15.15	.87	2.90	.40	1.94	21.26
Totals	2,722	4,979	$104,364	$5,714	$22,408	$2,898	$2,028	$137,412	$20.96	$1.15	$4.50	$ .57	$ .41	$27.59

ORGANIZATION CHART

BUREAU OF BUILDING REPAIR

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1963



BUREAU OF BUILDING REPAIR

J. S. Rutherford, Acting Superintendent

This Bureau is, as the name implies, that division of the Department of Public Works Maintenance and Operation activities which deals primarily with our public buildings. The scope of Bureau responsibilities is wide and varied, but of primary importance is the providing of services and materials for the maintenance, repair, replacement and reconstruction of the 321 City and County buildings which have been established by Charter authority or other policy determinations as being the responsibility of the Department of Public Works. While the above is the primary function, the following are the secondary Bureau activities, in relative order of importance and/or dollar value:

1. Provide operation and custodial personnel and supplies for 35 of the above buildings, requiring the full time services of 150 employees.

2. Provide necessary maintenance and repair services to other City departments through an interdepartmental work order procedure, or by competitive public contract. Relative importance and proportions of this phase of Bureau activities is illustrated graphically in Figure 1. The major portion of this work will be noted as being derived from the Board of Education, with other City departments accounting for lesser amounts.

3. Provide labor and supervisory services for street traffic painting by interdepartmental work order procedure from the Bureau of Engineering.

4. Provide inspection and survey services necessary for the development of a preventive maintenance program, and the compilation of data and material for the intelligent preparation of budgets. In addition, providing technical consultation and assistance to the operating activities in the appropriate maintenance and repair of properties.

5. Maintenance and repair of street name signs by work order procedure from the Bureau of Engineering.

6. Repair of street structures and sidewalks fronting on City property, and of various monuments in street areas by work order procedure from the Bureau of Engineering.

TABLE 1

PUBLIC BUILDING UNDER THE JURISDICTION OF THE DEPARTMENT OF PUBLIC WORKS FOR MAINTENANCE AND REPAIR

	Buildings		1962-63 Total Budgeted Funds (Inter-departmental & General Repair	Unit Costs Based On Floor Areas-$/Sq. Ft.
Department and Activity	No.	Floor Areas Total Sq. Ft.		
Fire Department	59	590,000	$ 122,537	$0.207
Police Department (C)	9	101,293	29,083	0.287
Public Health				
Health Center Bldg. (C)	(4	103,370	27,513	0.219
and Health Centers	(7 (R)	22,151		
Adult Guidance Center	-	(4,500)	1,000	0.223
V.D. Control	1 (R)	6,200	1,620	0.261
Emergency Hospitals	6	33,352	8,691	0.261
Hassler Health Home	17	130,000	47,859	0.368
Laguna Honda Hospital	25	650,000	194,422	0.299
San Francisco Hospital	33	753,000	257,833	0.342
Public Library	(20	320,263	86,111	0.269
	(8 (R)	13,280		
Public Welfare				
585 Bush Street	1	43,791	5,847	0.133
150 Otis Street	-	(17,900)	2,000	0.112
S.M.R.C. - Redwood City	1	10,000	4,196	0.420
Public Works				
City Hall (C)	2	526,540	128,854	0.245
Hall of Justice (C)	1	580,500	67,839	0.117
150 Otis Street (C)	2	40,900	13,793	0.337
Maintenance Yard (C)	10	72,890	13,403	0.184
Sewage Pumping Stations	14	23,085	8,945	0.387
Sewage Treatment Plants	36	543,330	105,884	0.195
450 McAllister Street (C)	1	56,460	13,086	0.231
Real Estate Department				
Civic Aud. - Brooks Hall	2	434,500	23,350	0.054
Sheriff				
County Jails #2 & #4	7	138,970	59,074	0.426
Juvenile Court				
Youth Guidance Center	16	200,828	48,338	0.240
Log Cabin Ranch	16	32,000	14,619	0.457
Miscellaneous Departments	16	214,994		
and Activities	1 (R)	6,012	31,145	0.141
	-	(20,700)		
TOTALS	315	5,647,709	$1,312,004	Ave. 0.233

NOTES

(R) Indicates building is rented. (Total of 17 rented buildings with a combined floor area of 47,643 square feet.)

(C) Indicates custodial and/or operational services also provided by Bureau of Building Repair.

(00,000) These floor areas are not added to obtain the total floor areas of all buildings as these areas are included elsewhere with other buildings.

($108,660 allowed for Replacement & Reconstruction of Public Buildings are not included in any of the above sums.)

ORGANIZATION AND PERSONNEL

The organization chart included as a part of this report indicates the primary divisions within the Bureau, their function, and indicates the budgeted as contrasted with the interdepartmental positions.

Personnel of the administrative, technical and operational divisions consists entirely of budgeted employees, as does the clerical staff assigned to this Bureau from the Bureau of Accounts.

In the maintenance and repair or shop divisions, however, the majority of employments are enumerated as interdepartmental, and are not established as continuing positions, but only "as needed" when the services are required and the funds are provided. The major portions of these interdepartmental employments have been derived from school funds during preceding years. Of the budgeted shop employees, most are on assignment to various major public buildings. Such assignments, however, are not inflexible, and are subject to change as necessary.

SIGNIFICANT CHANGES, PROBLEMS AND PROGRESS OF 1962-63

Interdepartmental Work Load

The total work load for all city agencies increased 4.63% over last year. While in previous years the School Department work constituted over 80% of our interdepartmental work load, it has now diminished to 67%. The past policy of the School Department was to budget a fixed annual amount for miscellaneous repairs without regard to the frequent increases in wage rates. As wages rose from year to year the result was a corresponding decrease in the number of man-days of labor available. The situation became all the more serious as new schools were put in service since these new facilities contain considerable additional mechanical and electrical equipment which necessarily increases the maintenance problem. It is understood that a more realistic procedure will be employed next year.

Miscellaneous repairs, done on a daily requisition basis, continued to constitute the major portion of the work done for the schools. During the year, 11,590 requisitions were completed, an average of 45.4 per day. Of this total, 3,456 were emergency calls requiring immediate response. The average total cost per requisition was $42.49, with direct labor representing 57.4%, and overhead 27.2% of the total cost. 48.6% of all the jobs cost $25 or less and 89.3% cost $100 or less.

The total overhead, including indirect costs, for the interdepartmental operations averaged 47.73% for the year, as compared with 40.73% for 1961-62. The increase of 17.19% was due to the recently granted health and welfare benefits and increases in indirect and overhead items.

Salaries, Wages, Problems & Progress

As was common throughout the nation in the construction industry, Bureau wages and salaries during 1962-63 recorded another significant increase, continuing the trend of recent years. Weighted average for all Bureau wage personnel indicated an increase of 4.94% over the preceding year, while salaried personnel increased 7.95%. The Bureau wage trend as compared with national averages for the building trades is indicated graphically in Figure 3.

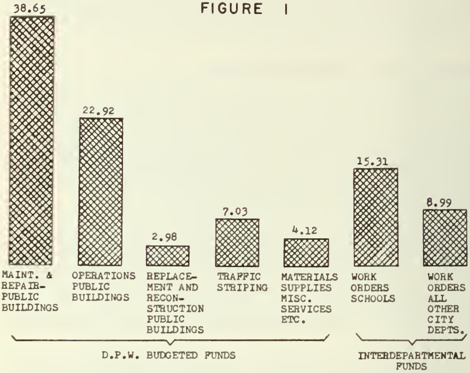
No progress was made in raising the $2000 charter limitation on repair work despite the fact that this change was recommended in the Blyth-Zellerbach Report, the Griffenhagen report and by the Grand Jury. The $2000 figure was established in 1946 when the Bureau of Labor Statistics Building Trade Index was less than 100. The index is now over 200 without a corresponding adjustment of the charter limitation.

The self-imposed $500 limitation of the School Department on any repair work is completely unrealistic, in our opinion. Most of the routine repair jobs in the $500 to $2000 bracket do not require formal plans and specifications. The architectural, engineering and inspection charges on a $500 job are, necessarily, a considerable percentage of the total cost. This procedure tends to delay work, increase costs and places severe restrictions on their maintenance staff's ability to act promptly and decisively on urgent repair matters.

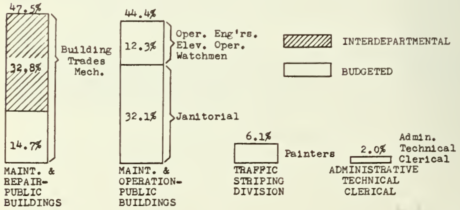
Progress was made in the up-grading of maintenance personnel which was reflected in the improved appearance and condition of the public buildings. Janitorial procedures and equipment continued to be reviewed and modernized. Additional trucks, power hand tools and equipment were acquired which allow maximum utalization of existing personnel in this period of high labor costs.

BUREAU OF BUILDING REPAIR

FIGURE I

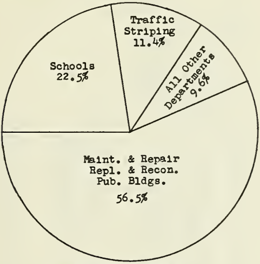


PROPORTIONAL EXPENDITURES OF ALL MONEY 1962-63



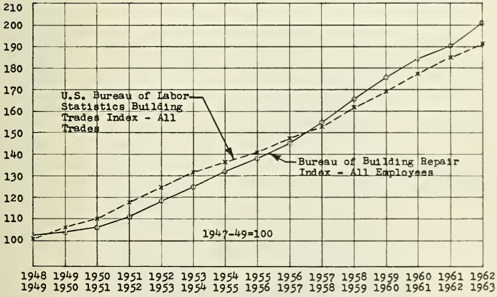
PERSONNEL ASSIGNMENT

BUREAU OF BUILDING REPAIR



ASSIGNMENT OF BUILDING TRADES PERSONNEL
(184 Employees)

FIGURE 2

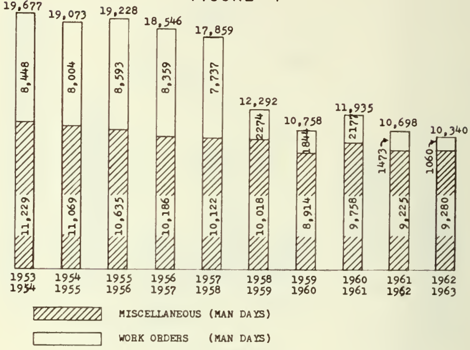


EMPLOYMENT COST INDEXES

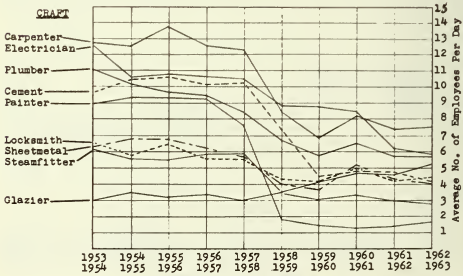
FIGURE 3

BUREAU OF BUILDING REPAIR

FIGURE 4

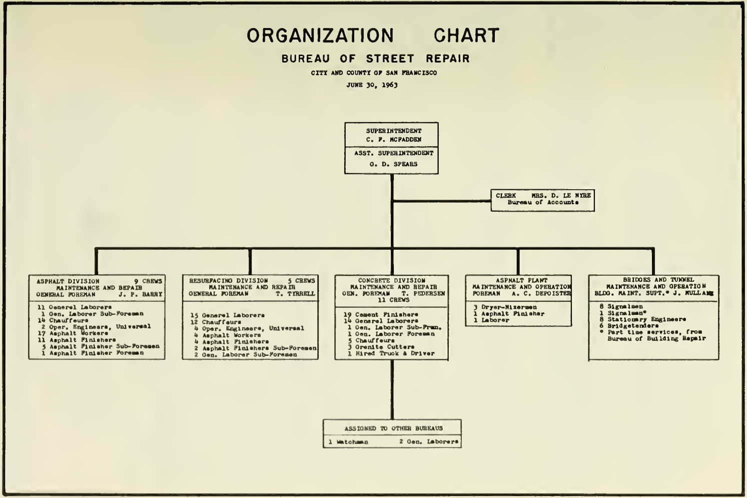


YEARLY WORKLOAD



DAILY MANPOWER REQUIREMENT

SCHOOL REPAIRS



ORGANIZATION CHART

BUREAU OF STREET REPAIR

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1963

SUPERINTENDENT
C. P. MCFADDEN

ASST. SUPERINTENDENT
G. D. SPEARS

CLERK MRS. D. LE NYRE
Bureau of Accounts

ASPHALT DIVISION 9 CREWS
MAINTENANCE AND REPAIR
GENERAL FOREMAN J. P. BARRY

- 11 General Laborers
- 1 Gen. Laborer Sub-Foreman
- 14 Chauffeurs
- 2 Oper. Engineers, Universal
- 17 Asphalt Workers
- 11 Asphalt Finishers
- 5 Asphalt Finisher Sub-Foremen
- 1 Asphalt Finisher Foreman

RESURFACING DIVISION 5 CREWS
MAINTENANCE AND REPAIR
GENERAL FOREMAN T. TYRRELL

- 15 General Laborers
- 12 Chauffeurs
- 4 Oper. Engineers, Universal
- 4 Asphalt Workers
- 4 Asphalt Finishers
- 2 Asphalt Finishers Sub-Foremen
- 2 Gen. Laborer Sub-Foremen

CONCRETE DIVISION
MAINTENANCE AND REPAIR
GEN. FOREMAN T. PEDERSEN
11 CREWS

- 19 Cement Finishers
- 14 General Laborers
- 1 Gen. Laborer Sub-Frmn.
- 1 Gen. Laborer Foreman
- 5 Chauffeurs
- 3 Granite Cutters
- 1 Hired Truck & Driver

ASPHALT PLANT
MAINTENANCE AND OPERATION
FOREMAN A. C. DEPOISTER

- 3 Dryer-Mixermen
- 1 Asphalt Finisher
- 1 Laborer

BRIDGES AND TUNNEL
MAINTENANCE AND OPERATION
BLDG. MAINT. SUPT.* J. MULLANE

- 8 Signalmen
- 1 Signalman*
- 8 Stationary Engineers
- 6 Bridgetenders

* Part time services, from Bureau of Building Repair

ASSIGNED TO OTHER BUREAUS

1 Watchman 2 Gen. Laborers

BUREAU OF STREET REPAIR

C. F. McFadden, Superintendent

FUNCTIONS

The functions of the Bureau of Street Repair continue to be substantially as stated in previous reports:

"Routine work includes the maintenance and repair of streets and appurtenant structures such as gutters, curbs, retaining walls, public stairways, pedestrian underpasses and overpasses, guard rails and fences; the maintenance and operation of lift bridges, tunnels and underpasses.

"Work ordered by the Director includes traffic channelization, minor street alterations, minor construction and emergency work for the protection of the City and/or the public.

"Work performed for other departments or bureaus includes the repair of pavement in Municipal Railway track areas, the repaving of trenches opened by the Bureau of Sewer Repair for the installation or repair of side sewers, the repair of certain state highways within the City and the repair of pavements in school yards and the yards of other City institutions. The Bureau also performs other minor services of varied nature.

"The City's charter provides that repair or reconstruction on any one job shall not exceed a cost of $2000. It also prohibits work on unaccepted streets, except in emergency, and on sidewalks in front of private property. Unaccepted streets are those streets that have not been properly improved and officially accepted for maintenance and repair by the City.

"Activities are further limited by state law governing the expenditure of monies from which the bureau is financed."

Maintained road mileage is as follows:

Secondary Streets (Secondary Roads)	624.27
Major Streets (Primary Roads)	193.73
State Highways	13.28
Total	831.28

Inasmuch as San Francisco is a combined city and county, its streets and road systems are one and the same.

ORGANIZATION AND PERSONNEL

Several personnel changes were made during the year.

On June 16, 1963, Mr. Charles McFadden was appointed permanent Street Repair Superintendent, vice Mr. F. D. Brown, who retired October 1, 1962 after serving as Superintendent of the Bureau for ten years.

One new employment, Street Repair Assistant Superintendent, was provided in the 1962-63 budget. Mr. Gordon Spears was appointed permanent Assistant Superintendent on June 16, 1963.

Two permanent vacancies of Street Repair General Foreman, created by the promotions of Mr. McFadden and Mr. Spears, were filled by Limited Tenure appointments of Mr. Ted Pedersen and Mr. J. Tyrrell from the Bureau of Engineering.

An organization chart, as of June 30, 1963, accompanies this report.

SUPERVISION

Supervision problems have been described in detail in past reports. The provision of an Assistant Superintendent, noted in Organization and Personnel, will allow the Superintendent to devote more time to field activities and should result in a more efficient and productive organization.

EQUIPMENT

With the exception of one new automobile, provided for the Assistant Superintendent, equipment procured during the year consisted of replacements for worn out units. Replacement units were as follows:

1 - Pavement Breaker, Thor
1 - 3-5 Ton Tandem Roller, Huber-Warco
50 - Movable Street Barricades
1 - Stationary Air Compressor, Ingersol-Rand
1 - International, Model R.F. 192-A dump truck

Except as noted on next page, replacement units are quite similar to the units replaced.

The 3-5 ton Huber-Warco tandem roller replaced a smaller, 1949 wheeler roller.

The International dump truck is similar to the unit replaced except it has a three axle, instead of a two axle chassis, which permits the legal carrying of normal loads on State highways and freeways.

MUNICIPAL ASPHALT PLANT

Asphaltic mixtures produced at the Municipal Asphalt Plant during 1962-63 were as follows:

			COMPOSITION			
Mix Designation	Tons	Asphalt	#6	5/16"	5/8"	1-1/4"
Surface	3,573	8-1/2	91-1/2			
School	5,875	7	60	33		
Topeka	37,823	6	45	25	24	
Spreader	1,026	5-1/4	40	25	17-1/2	12
Binder	531	3-1/2	21	28	22-1/2	25
Cold	204	*	35-1/2	27-1/2	30-1/2	
Total	49,032					

* 1/2% asphalt and 6% Pacific specification 300 fuel oil.

Aggregates were screened into "hot bins" from a combination of Antioch (fine graded) sand, coarse graded sand and three sizes of gravel. Asphalt used was 60-70 penetration, paving grade.

Production costs for the 49,032 tons produced during the year were as follows:

Direct Labor	$ 49,508 or	$1.01 per ton
Indirect Labor	2,132 or	.04 per ton
Overhead	10,849 or	.22 per ton
Materials	187,477 or	3.82 per ton
Gas, Electricity, etc.	19,694 or	.40 per ton
Total	$269,660 or	$5.50 per ton

There were no plant break-downs during the year but the plant was taken out of service for one day, May 3, 1963, to permit the installation of a new 36" metal elbow in the dust collecting system. The work was done by the Rees Blowpipe Company as a contractual service.

During June 1963, the plant tower and hot elevator were cleaned, primed and painted. Painting was done by the Bureau of Building Repair, for a cost of $1,135, as a contractual service.

All other normal plant maintenance and worn part replacement was done by the operating crew during slack work days or on Saturdays.

EXPENDITURES

Accompanying tabulations show expenditures for each of the several budgeted items for each of the past five years. Percentage increases for road repair costs, wage rates and material prices are shown for "Street Repair". Percentage increases for bridge, tunnel and underpass maintenance and operation costs and for salary rates are shown for "Bridges, Tunnels and Underpasses".

STREET REPAIR

EXPENDITURES Budget Item	1958-59	1959-60	1960-61	1961-62	1962-63
Permanent Salaries	$ 38,904	$ 41,401	$ 44,817	$ 44,878	$ 54,032
Allowance for Overtime	59	109	43	140	125
Aloowance for Holidays	771	773	878	636	879
Temporary Salaries	1,346(a)	1,806(a)	139	296	449
Wages	885,991	934,412	994,338	1,022,593	1,162,505(d)
Contractual Services	83,840	93,325	89,469	87,246	103,259
Auto Mileage - Employees' Cars	23	24	38	25	43
Truck Hire	11,507	12,195	12,983	13,760	14,417
Materials & Supplies	256,085	253,323	259,575	258,654	258,919
Equipment	93,286	20,652	52,479	23,756	18,424
Accident Compensation (c)	12,801	19,759	11,220	10,119	9,627
Automobile Insurance		627	6,820	7,282	7,716
Retirement Allowance (c)	206,886	198,809	203,235	125,140(b)	131,572(d)
Employer's Tax, Social Security (c)		16,165	24,941	33,810	33,706
Allowance for Medical Plans (c)	3,007	7,566	9,160	9,078	15,309
Services of Other Departments	21,181	22,936	23,331	24,200	26,855
Sub-Total	1,615,687	1,623,882	1,733,466	1,661,613	1,837,837
Improvements	19,202				
Gross Expenditures	1,634,889				
Road Repair Costs; * % Increase:					
Over Previous Year		5.5	4.7	-.9	5.6
Over 1958-59		5.5	10.4	9.4	15.5
Wage Rates; % Increase					
Over Previous Year		6.4	5.8	5.0	6.1
Over 1958-59		6.4	12.6	18.2	25.4
Materials Prices: % Increase					
Over Previous Year		-1.0	-.6	-.2	-.5
Over 1958-59		-1.0	-1.7	-1.8	-2.3

* Equipment Excluded; "c" Allowance Adjusted

(a) Sick Leave Relief for Retiring General Foreman.
(b) Contribution Rate Reduced.

(c) Includes Allowance for other Bureaus and Departments
(d) Includes Retroactive Health & Welfare Payments - 7/1/58 thru 6/30/62.

EXPENDITURES	BRIDGES, TUNNELS AND UNDERPASSES				
Budget Item	1958-59	1959-60	1960-61	1961-62	1962-63
Permanent Salaries	$123,669	$126,754	$124,888	$128,588	$133,393
Allowance for Overtime	17	38	39	49	38
Allowance for Holidays	5,687	5,725	5,699	5,837	6,165
Temporary Salaries	13,151	6,297	9,768	7,185	6,508
Contractual Services	15,725	18,181	20,418	21,581	19,370
Materials and Supplies	1,180	1,224	1,448	1,475	1,663
Accident Compensation					-------
Retirement Allowance					9,111
Employer's Tax, Social Security					2,723
Allowance for Medical Plans					1,210
Services of Other Departments	8,387	8,923	10,145	7,498	8,632
Total Expenditures	$167,816(a)	$167,142(a)	$172,405(a)	$172,213(a)	$188,813
Expenditures; % Increase					
Over Previous Year		-.4	3.1	-.1	9.6
Over 1958-59		-.4	2.7	2.6	12.5
Salary Rates; % Increase					
Over Previous Year		5.3	0.3	4.3	6.9
Over 1958-59		5.3	5.6	10.2	17.9

(a) Accident Compensation, Retirement Allowance, Employer's Social Security Tax and Allowance for Health Service System are included in Street Repair Budget.

WORK PERFORMED

	Unit	Quantity	Total Cost	Unit Cost
Asphalt Resurfacing - Hand				
Asphalt Paving	Sq.Ft.	203,652	$ 24,707	$ .1214
	Tons	1,450.5		17.033
(140.4 sq. ft. per ton)				
Asphalt Resurfacing - Machine				
Asphalt Paving	Sq.Ft.	4,897,630	283,988	.0580
	Tons	28,823.5		9.8527
(169.9 sq. ft. per ton)				
Asphalt Resurfacing - Box				
Asphalt Paving	Sq.Ft.	998,490	96,981	.0971
	Tons	6,680.7		14.5165
(149.5 sq. ft. per ton)				
Asphalt Patching				
	Sq.Ft.	817,292	210,667	.2578
	Tons	5,680.3		37.0873
(143.9 sq. ft. per ton)				
Asphalt Paving (Cut Outs)				
Compressor Work	Sq.Ft.	234,344	44,959	.1919
Asphalt Paving	Sq.Ft.	264,561	56,776	.2146
	Tons	3,146.4		18.0447
Cleanup				
Totals		264,561	55,486	.5943
(84.1 sq. ft. per ton)		3,146.4		49.9685
Curb Reset and Replaced				
Compressor Work	Lin.Ft.	31,731	29,886	.9419
Granite Reset	Lin.Ft.	15,483	26,283	1.6975
Granite Replaced	Lin.Ft.	7,084	15,091	2.1303
Concrete Reset	Lin.Ft.	2,657	4,206	1.5830
Concrete Replaced	Lin.Ft.	3,521	10,611	3.0136
Pavement-Asphalt	Sq.Ft.	26,612	16,208	.6090
Pavement-Concrete	Sq.Ft.	2,235	4,063	1.8179
Sidewalk	Sq.Ft.	35,198	38,751	1.1009
Cleanup	Lin.Ft.	35,198	78,631	
Total			$232,729	

	Unit	Quantity	Total Cost	Unit Cost
Concrete Curb Repair			$ 11,021	
Curb Yard				
Redress Granite Curb	Lin.Ft.	7,495	13,685	$ 1.8259
Sort, Move, Etc.			20,392	
Total			34,077	
Crack Sealing				
Sealing	Lin.Ft.	1,879,952	144,949	.0771
Cleanup			23,956	
Total	Lin.Ft.	1,879,952	168,905	.0898
Manhole Casting Reset	Each	542	36,850	67.98
Concrete Pavement Repaired	Sq.Ft.	10,873	33,522	3.0830
Sidewalk Reconstructed	Sq.Ft.	11,558	9,351	.8091
Mud Jacking			7,075	
Heater Planing	Lin.Ft.	315,050	41,715	.1324
Slide & Debris Cleanup			31,259	
State Highways			1,582	
Asphalt Paving	Sq.Ft.	9,751		
Work for Other Bureaus & Departments			145,765	
Asphalt Paving	Sq.Ft.	216,253		
Concrete Paving	Sq.Ft.	9,051		

BRIDGES, TUNNELS AND UNDERPASSES

The City's three bascule type bridges and their operation were described in report for year ending June 30, 1960; Broadway Tunnel and its operation was described in report for year ending June 30, 1959. The Geary Expressway Underpass pumping facilities at Fillmore Street are described elsewhere in this report.

Bridge openings during the past year and the previous five years were as follows:

Year	Third Street	Fourth Street	Islais Creek
1962-63	2207	1842	589
1961-62	2122	1650	941
1960-61	1503	1102	962
1959-60	1008	573	762
1958-59	1203	757	1084
1957-58	1322	909	1492

The increase in the number of openings of the Third and Fourth Street bridges and the decrease in the number of openings of the Islais Creek Bridge is attributable to a number of fishing boats changing their berths from Islais Creek to a location west of the Fourth Street Bridge.

Statistics regarding Broadway Tunnel ventilation, lighting and traffic are as follows:

Ventilation - Blower Operating Time

Year Ending June 30	North Bore - Westbound Traffic Slow Hours	Percent	Fast Hours	Percent	South Bore - Eastbound Traffic Slow Hours	Percent	Fast Hours	Percent
1963	467.8	5.34	12.0	.13	42.6	.49	27.0	.31
1962	891.3	10.17	19.6	.22	112.8	1.29	32.3	.37
1961	423.7	4.83	10.8	.12	51.7	.59	36.0	.41
1960	200.1	2.28	5.9	.07	32.2	.37	26.2	.30
1959	228.5	2.61	5.6	.06	39.3	.45	33.9	.39
1958	291.6	3.33	10.0	.11	37.7	.43	23.6	.27

Lighting - Lamps Replaced

	Occasions	72T8's	72T12's	Total
Lamps in Service		1004	332	1336
Replaced During Year	2	446	21	467
Previously Replaced	44	4664	341	5005
Totals (Since Dec. 1952)	46	5110	362	5472

Traffic Counts

		Eastbound	Westbound
Tuesday	December 15, 1959	12,216	10,359
Thursday	July 10, 1958	11,144	9,478
Wednesday	March 16, 1955	10,607	9,795
Monday	August 17, 1953	9,361	8,878
Wednesday	February 11, 1953	8,668	8,770

The tunnel was put into service in December 1952.

GEARY EXPRESSWAY UNDERPASS AT FILLMORE STREET

On February 23, 1963 the new Geary Expressway Underpass at Fillmore Street was accepted by the City and placed in the custody of the Bureau of Street Repair.

Due to the presence of ground water and the possibility of storm water collecting in the vicinity of the underpass it was necessary to install pumping facilities to prevent flooding. The station consists of three levels located at the north of the underpass.

The lower level or sump room extends approximately 14 feet below the roadway of the underpass and water is collected therein from side drains at the north and south sides of the structure and from a culvert below the center line of the roadway.

The second level contains two single speed, vertical submerged type bottom suction pumps, each with a rated capacity of 1500 gpm and driven by two 25 H.P. electric motors. The operation is automatic and controlled by electronic devices which start and stop one or both pumps when the water in the sump room reaches predetermined levels. Discharge is into the City sewer system. The sequence of pump operation can be alternated to prevent undue wear of either pump. Both pumps are provided with time meters to record hours of operation.

The third or top level contains the electric panel switchboard, meters, controls for the operation of the station and a standby gasoline engine driven generator unit. In the event of a failure in the normal electric power supply, the generator unit automatically starts and assumes the power load.

Since the pumping station is completely automatic, no operator is required. However, regularly scheduled inspections are made by the Building Maintenance Superintendent in Charge of Bridges, Tunnels and Underpasses. Routine greasing and preventive maintenance is done by an operator from the Broadway Tunnel. Repairs that cannot be handled by Bureau personnel are performed by other appropriate Bureaus or Departments as a contractual service.

During 1962-63, two electrical breakdowns occurred. The power transfer switch which controls operation of the engine-generator unit burned out; the battery charger on the generator unit failed. Both conditions were corrected by the installing contractor under his warranty.

Number of hours pumps operated during the year were as follows:
Pump #1 - 239 hours. Pump #2 - 246 hours.

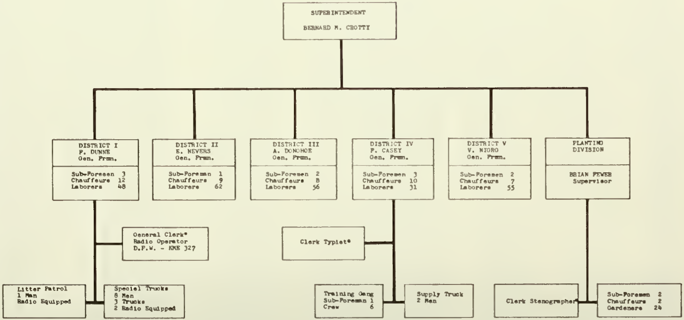
The amount of water discharged from the pumping station was estimated to average 83,700 gallons per day during the fiscal year.

ORGANIZATION CHART

BUREAU STREET CLEANING AND PLANTING

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1963



* ASSIGNED FROM BUREAU OF ACCOUNTS

BUREAU OF STREET CLEANING AND PLANTING

Department of Public Works

Bernard M. Crotty, Superintendent

The Bureau of Street Cleaning and Planting is responsible for cleaning 1655 curb miles of streets and 109 curb miles of traffic islands. The Bureau also maintains 140 acres of landscaping and approximately 7100 street trees. This is an increase of 6 curb miles of streets, 5-1/3 acres of landscaping and 270 trees over last year, with no increase in personnel.

During 1962-1963 the Bureau had 365 employees in two divisions, and expended $3,051,842 of which $2,811,290 was required for street cleaning and $20,552 was used for maintenance of plantings.

The Bureau had 79 units of motorized equipment which traveled a total of 532,013 miles. The street cleaning division collected just under 100,000 cubic yards of litter which was hauled to the scavengers' sanitary fill dump in northern San Mateo County.

Tables containing reports of gang sweeping, motor flushing and motor sweeping performance may be found on pages 145, 146 and 147.

As part of our annual program for replacing worn out street cleaning equipment we were allowed $88,900 for replacement of 7 units. The 7 units which were replaced had an average age of 13 years, the oldest acquired in 1948. The Bureau was also allowed funds for purchase of 1 additional mechanical street sweeper, pictured on page 144.

Although some authorities feel that equipment should be replaced at an age of 6 years, or 60,000 miles, we have thus far found that our equipment will perform efficiently and safely for at least 8 years, with the exception of mechanical street sweepers, which should be replaced more often as they become very costly to maintain after 6 or 7 years.

The Department of Public Works continues to find the radio system an invaluable adjuct to providing fast and efficient service to the public. The volume of calls handled by radio station KME 327 is increasing substantially each year, as indicated in the following table:

Year	Total Calls	Originated by Bureau St. Cl. & Pl.	Originated by Other Bureaus
1959-1960	13,385	8,815	4,570
1960-1961	13,805	9,587	4,218
1961-1962	17,377	11,742	5,635
1962-1963	20,660	13,568	7,093

The value of this radio in public service and safety is inestimable as any emergency concerning public works may be responded to within minutes. A number of times in the past year our mobile units have come upon the scene of an accident where an ambulance is needed or the police or fire departments are required. Transmission of these messages to the proper agency is accomplished within one or two minutes after notification by our mobile units.

In our 1961-1962 annual report mention was made of using synthetic fibers for filling main mechanical street sweeper brooms. It was anticipated that we would change over completely to synthetic fibers this year but we have found that this complete change over will not be possible yet due to mechanical differences in some machines.

We are continuing our studies of night cleaning operations in the south of Market Street area and portions of the north of Market Street area, east of Kearny Street. At the present time, one mechanical sweeper is working 5 nights, weekly, from 10 P.M. to 6 A.M. in the aforementioned areas.

Although night street cleaning has been successful on the main streets due to the absence of parked vehicles, many of the alleys still have automobiles parked in them all night and this precludes the use of a mechanical sweeper, thus requiring the use of daytime hand sweepers. It is to be noted that these alleys contain a greater amount of litter and debris proportionately than do the main streets. Therefore, the savings we hoped to realize by night mechanical cleaning operations are less than anticipated.

This past year saw the completion of the third and most successful citywide litter control campaign. The Committee concentrated much of its effort in the high schools and the industrial sections of San Francisco. Through the cooperation of the superintendents of Public and Catholic schools members of the Committee participated in special rallies at Polytechnic, Lowell, George Washington, St. Ignatius and Immaculate Conception Academy high schools. In every case the school authorities were pleased with the students' response to the Committee's efforts and insisted that this program be continued in the future.

A concerted effort by the Committee to enlist the aid of industry and business was launched this year by selecting a 27-block area, and sending letters to all 1600 firms and individuals doing business or owning property in the area. This site is bounded by First Street, Folsom Street, Tenth Street and Market Street. The letter pointed out the Committee's aims and the conditions which had been observed in the pilot area. Specific mention was made of the type of violation most flagrant, such as uncovered litter receptacles, piles of litter and junk and the illegal occupancy of the sidewalks for storage of debris or wares. The Police Department, through its representation on the Committee, cooperated by assigning an officer to patrol the area and issue warnings beginning June 1, 1963. The letter explained that the officer was instructed to continue the warnings through August 31, 1963. On the first of September 1963 the police will issue citations for violations, and the recipients will be required to answer in court.

STREET CLEANING
AND PLANTING
D.P.W.
431-72

431 828
MOBIL

TABLE I

Department of Public Works
BUREAU OF STREET CLEANING AND PLANTING
City & County of San Francisco

GANG SWEEPING - FISCAL YEAR 1962-63

(Sweeping Frequencies For Gang Route Numbered:)

Month	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11
1962											
July	1.75	4.20	4.16	2.75	1.46	2.22	2.87	1.90	2.62	2.87	**
August	2.09	4.60	4.00	2.55	1.91	2.09	2.66	2.09	3.14	3.14	
September	1.66	4.00	4.00	1.80	1.63	2.00	1.90	1.63	2.25	2.25	
October	2.18	4.60	5.50	3.00	2.30	2.30	2.40	2.00	2.87	2.55	
November	2.00	4.40	4.40	2.62	1.90	2.22	2.22	1.90	2.44	2.62	
December	1.72	4.20	3.80	2.71	1.66	2.22	2.22	1.66	2.50	2.22	
1963											
January	2.75	4.40	5.00	3.14	1.83	2.44	2.77	2.00	3.00	2.44	
February	2.11	4.20	5.25	3.00	1.58	2.00	2.22	1.72	2.37	2.22	
March	2.30	4.20	5.00	3.16	1.90	2.33	2.22	1.90	2.87	2.44	
April	2.55	4.40	5.00	3.83	1.83	2.44	2.75	2.00	3.33	2.56	
May	2.50	4.60	4.40	3.66	1.83	2.44	2.75	2.00	3.00	2.56	
June	1.66	4.00	4.20	2.50	1.58	2.00	2.22	1.81	2.71	2.22	
Totals	25.27	51.80	54.71	34.72	21.41	26.70	29.20	22.61	33.10	30.09	

NOTE: Each gang is under supervision of a labor sub-foreman and is composed of 4 to 6 hand-sweepers with a truck crew of 1 chauffeur and 2 laborers. Length of each route varies from 66 to 270 curb-miles.

** Gang #11 is weeding gang.

TABLE 2

Department of Public Works
BUREAU OF STREET CLEANING & PLANTING
City & County of San Francisco

MOTOR SWEEPING - FISCAL YEAR 1962-1963

			DISPOSITION OF **14 SWEEPERS (Hours)				
Month	Curb Miles Swept	Sweeper Loads (Number)	Sweeping	Downtime*	Total Work-Day Hours	Downtime* (Percentage)	Average Number of Sweepers in Operation
1962							
July	4,675	285	1,398	1,094	2,492	43.90	7.85
August	4,792	294	1,446	1,242	2,688	46.20	7.53
September	4,290	284	1,317	843	2,160	39.02	8.53
October	4,680	393	1,497	1,183	2,680	44.13	7.82
November	4,023	272	1,222	1,238	2,460	50.30	6.95
December	3,986	257	1,187	1,177	2,364	49.78	7.03
1963							
January	4,779	334	1,487	1,105	2,592	42.62	8.03
February	4,202	273	1,234	1,006	2,240	44.91	7.71
March	3,855	283	1,193	1,307	2,500	52.27	6.68
April	4,607	299	1,332	1,268	2,600	48.76	7.17
May	3,948	256	1,186	1,366	2,552	53.52	6.50
June	3,719	249	1,137	1,211	2,348	51.57	6.78
Total	51,556	3,479	15,636	14,040	29,676	-	-
Averages Per Month	4,296	289	1,303	1,170	2,473	47.31	7.37

NOTE: *Downtime includes all work-day time that equipment is not engaged in actual street sweeping; such as when undergoing repairs, held for servicing or for standby.

**13 Sweepers + 1 night sweeper = 14 sweepers total.

TABLE 3

Department of Public Works
BUREAU OF STREET CLEANING AND PLANTING
City & County of San Francisco

MOTOR FLUSHING - FISCAL YEAR 1962-1963

Month	Curb Miles Flushed	No. of Stops for Refilling Water Tanks	DISPOSITION OF 10 FLUSHERS (Hours)			Downtime* (Percentage)	Average Number of Flushers in Operation
			Flushing	Downtime*	Total Work-Day Hours		
1962							
July	4,770	2,269	925	787	1,712	45.95	5.40
August	5,717	2,572	1,130	742	1,872	39.61	6.03
September	4,798	2,117	935	553	1,488	37.13	6.28
October	7,200	3,199	1,418	434	1,852	23.42	7.65
November	6,053	2,732	1,194	530	1,724	30.73	6.92
December	6,190	2,789	1,238	406	1,644	24.68	7.53
1963							
January	6,738	3,170	1,386	434	1,820	23.83	7.61
February	5,272	2,562	1,084	468	1,552	30.12	6.98
March	5,579	2,600	1,096	624	1,720	36.26	6.37
April	6,842	3,092	1,336	456	1,792	25.43	7.45
May	6,728	3,005	1,359	433	1,792	24.15	7.58
June	5,891	2,657	1,161	467	1,628	28.67	7.13
Total	71,778	32,764	14,262	6,334	20,596	-	-
Averages	5,981	2,730	1,188	528	1,716	30.75	6.92

NOTE: Each flusher is operated with 1 chauffeur and 1 laborer for handling flushing controls.

*Downtime includes all work-day time that equipment is not engaged in street flushing; such as when undergoing repairs, held for servicing, or standby or when operating on work of different nature.

STREET PLANTING DIVISION

The Planting Division is responsible for the maintenance of the City's landscaped boulevards and traffic islands, some of the freeway interchanges, plantings around some City structures and City planted street trees. A staff of 24 gardeners, 2 sub-foremen, 2 chauffeurs and a supervisor maintain these areas totaling 140 acres and 7,100 trees. The Division accepted for maintenance 200 newly planted street trees on Sacramento Street between Van Ness Avenue and Presidio Avenue, 25,000 sq. ft. of landscaping at Alemany and Bay Shore Interchange, 70,000 sq. ft. of planted center islands along the Geary Expressway and 133,000 sq. ft. of landscaping on Mansell Street during the year with no additional help.

The use of new chemicals, devices and equipment have partially made up for the lack of sufficient gardener employments.

A granular compound, Simazine 4-G, has been used on a trial basis for weed and grass control in our landscaped areas and street tree basins. The results are promising at this time but extensive experiments will be carried on in order to evaluate its full potential.

Timing devices on the irrigation system in the center islands of the Geary Expressway and on Mansell Street have proven very successful and reduce the labor required to maintain the areas.

A small timer has been installed in the Division's nursery for more frequent watering of the trees and plants in stock. This allows the nursery to remain untended for longer periods. Two large tanks of 400 and 500 gallons, salvaged from old equipment have been installed at the nursery. They are being used for the storage of weed oil and liquid fertilizer. Bulk prices on these items are cheaper and the material is handled more efficiently and safely. A dilute solution of fertilizer is used in each tank truck load of water for irrigating the street trees.

The Fordson tractor acquired last year with attachments such as a front end shovel, auger, grader and curb dresser does many jobs faster, safer and more efficiently than by hand methods.

A "Flying Squad" system has been put into operation whereby a sub-foreman and five to six gardeners maintain widely separated landscaped areas. The squad is mobile and has been successful in that landscaped areas are serviced more frequently than under the old system of one man caring for a particular area or group of areas.

Even with this change the areas do not get attention frequently enough.

The Department of Public Works received $51,700 in the 1962-1963 budget to carry on its Five Year Planting Program along the City's main thoroughfares and points of interest. $25,000 was earmarked for the landscaping of the traffic islands along Van Ness Avenue, $21,000 for tree and hedge planting on Gilman Avenue in front of Candlestick Park and $5,700 for street tree planting along Franklin Street between California Street and Broadway (Neighborhood conservation area). The Street Planting Advisory Committee finished a very busy and fruitful year as planting advisors to the Director of Public Works. Plants and their layout were recommended for the Van Ness Avenue, Sacramento Street, Franklin Street, Gilman Avenue and 17th Street and Ord Street projects. Appreciation is expressed to these members for their faithful service: Mr. Wm. Siden, Chairman; Mrs. Morley Thompson; Messrs. Keith Davey, Jack Spring, Sylvester Evans, Roy Hudson and Harry Nelson.

With the aid of members of the Bureau of Engineering standards for future public and private planting of trees on sidewalks were established. This was accomplished only after many hours of work by the Bureau of Engineering. Many problems and unaswered questions were resolved permanently through the work of this committee thereby assuring proper and intelligent placement of trees on San Francisco's streets in the future.

The Division encourages and guides the property owner and merchant in the "Do it yourself" phase of the tree planting program. Plant A Tree A Week in San Francisco in April '63 was most successful. More than 5,000 trees were planted due to this drive. The San Francisco Chamber of Commerce is to be complimented for their interest in this program and for their cooperation with the Department of Public Works. Some 3,000 trees have been planted in the last four years. The Division has set a goal of 350,000 street trees for this program. Although this would indicate a total of 40 years to complete this program (based on the foregoing figures) the Department of Public Works hopes through acceleration of private planting to reduce this time. No limit has been set, but if the program can be accomplished over a 20 year period then it would be considered reasonably successful. The third revised booklet on recommended street trees for San Francisco was compiled in the Division and published by the San Francisco Chamber of Commerce. This booklet lists approximately 50 species and is available free to anyone. The Division continuously conducts a tree trial program, gathering information on the use of untried trees. Also, we participate in the tree evaluation program conducted by the University of California at Davis.

The Division acts as an advisor and cooperates with the Redevelopment Agency, City Planning, Bureau of Engineering, Bureau of Street Repair and Bureau of Sewer Repair, Housing Authority, Chamber of Commerce (both Junior and Senior), San Francisco Beautiful, Merchant Associations, Downtown Association, Architects, Landscape Architects, Builders, Neighborhood Associations and the private citizen.

STREET PLANTING DIVISION

Recently planted slopes along Portola Drive

STREET PLANTING DIVISION

Tractor with curb dresser attachment edging ground cover on Geary Blvd. Motor broom from Street Cleaning following for the clean up.

BUREAU OF ACCOUNTS

J. J. McCloskey, Head Accountant

FUNCTIONS AND ORGANIZATION

The operating functions of the Bureau embrace control of payroll procedures, personnel records and field time-keeping; purchase order requisitions; substoreroom and inventories; automotive expenditures; job costs and invoicing; side sewer job deposits and refund accounts; State gasoline tax subventions and Bond Fund accounts; the cash revolving fund; the material stores revolving fund; budget preparation and controlling accounts; and the supplying of clerical service to all of the maintenance and operating bureaus. All documents dealing with the appropriation, allocation and disbursement of funds originate in the Bureau which channels them through required procedure until final liquidation.

Although there has been an ever increasing work load due to the larger volume of work being performed by the Department, no additional employees were added to the Bureau of Accounts during the year.

The personnel of the Bureau as of June 30, 1963 consisted of:

1 - Head Accountant
1 - Principal Accountant
3 - Senior Accountant
5 - Accountant
2 - Head Clerk
3 - Senior Clerk
2 - Payroll and Personnel Clerk
2 - Account Clerk
4 - General Clerk
1 - Senior Clerk-Typist
4 - General Clerk-Stenographer
6 - General Clerk-Typist
1 - Tabulating Division Supervisor
2 - Tabulating Machine Operator
2 - Key Punch Operator

39 - Total

Budget expenditures for operation of the Bureau of Accounts for the fiscal year 1962-63 were as follows:

	Budget	
	Appropriations	Expenditures
Permanent Salaries	$ 196,169	$ 189,316
Overtime Allowance	900	900
Holiday Pay	1,100	1,064
*Temporary Salaries	8,695	8,695
Contractual Services	21,089	20,989
Materials and Supplies	3,700	3,515
Equipment	2,091	2,062
Services of Other Departments	6,071	6,070
TOTAL - BUREAU OF ACCOUNTS	$ 239,815	$ 232,611

*The sum of $8,695.00 expended for temporary salaries was for the replacement of a permanent Tabulating Division Supervisor who was assigned to the Controller's Office during the fiscal year in connection with the Electronic Data Processing Program.

BUDGET

The Department of Public Work's 1962-63 budget and supplemental appropriations as finally approved by the Board of Supervisors amounted to:

GENERAL FUND		
Operations and Maintenance	$ 10,537.369	
Replacements and reconstruction	109,229	
Improvements	2,037,535	$ 12,684,133
SPECIAL ROAD FUND		
Operations and Maintenance	3,465,005	
Reconstruction	1,816,600	
Improvements	1,398,115	6,679,720
SPECIAL GAS TAX STREET IMPROVEMENT FUND		
Operations and Maintenance	$ 595,132	
Improvements	4,415,600	5,010,732
TOTAL BUDGET		$ 24,374,585

SUMMARY OF TRANSACTIONS

BUDGETED FUNDS, SUBJECT TO CONTROL AND APPROPRIATED TO:

BUREAU	BUDGET		EXPENDITURES	
	1961-62	1962-63	1961-62	1962-63
GENERAL FUND				
General Office	$ 288,225	$ 335,229	$ 280,402	$ 252,282
General Office - Improvements	1,816,615	2,037,535	1,623,404	1,474,262(a)
Architecture	81,219	83,333	79,817	82,226
Building Inspection	859,718	918,430	837,536	896,004
Engineering	697,478	700,255	662,840	675,408
Central Permit	75,093	68,591	74,437	63,311
Accounts	215,055	239,815	212,342	232,611
Building Repair	3,028,179	2,758,600	2,718,021	3,833,598(b)
Traffic Striping	227,352	255,740	218,938	248,258
Street Cleaning	2,625,254	2,918,558	2,546,084	2,811,290
Sewer Repair	1,070,603	1,247,736	1,107,656	1,332,715
Sewage Treatment Plants	1,228,412	1,290,545	1,125,298	1,216,835
Sewage Pumping Stations	134,540	151,343	126,421	137,411
ROAD FUND				
Street Repair	1,718,129	1,933,056	1,661,613	1,837,837
Bridges and Tunnels	181,878	-	172,213	-
Street Tree Planting	223,287	246,283	219,288	228,595
Street Tree Planting - Improvements	19,400	51,700	18,596	11,957(c)
Traffic Engineering	581,475	616,873	539,551	563,244
Traffic Signal Maintenance	347,308	356,833	329,767	349,384
Engineering Administrative	121,892	195,700	116,736	143,007
Maintenance and Reconstruction	276,000	1,881,160	238,397	966,977(d)
Construction	1,525,800	1,398,115	659,140	855,289(e)
SPECIAL GAS TAX STREET IMPROVEMENT				
Maintenance	368,400	394,000	338,199	282,252
Construction	1,081,000	4,415,600	603,534	4,708,547 (f)
Bridges, Tunnels and Underpasses	-	201,132	-	188,813
Sub-Total	18,792,312	24,696,162	16,510,230	23,392,113
Less: Budget Transfers between Bureaus	291,980	321,577	281,132	314,881
Total	$18,500,332	$24,374,585	$16,229,098	$23,077,232

(a) Expenditures of $1,083,127 from funds budgeted in prior years.
(b) Expenditures of $1,187,357 from funds budgeted in prior years.
(c) Expenditures of $ 11,957 from funds budgeted in prior years.
(d) Expenditures of $ 193,768 from funds budgeted in prior years.
(e) Expenditures of $ 482,385 from funds budgeted in prior years.
(f) Expenditures of $4,433,017 from funds budgeted in prior years.

PAYROLL DIVISION

For the tiscal year 1962-63, there was a total of 1624 authorized permanent employees in the Department of Public Works, as follows:

BUREAU	Number of Employees 1961-62	1962-63
Accounts	39	39
Architecture	62	62
Building Inspection	90	90
Building Repair	346	343
Central Permit	11	11
Engineering	255	254
Traffic Engineering	29	29
General Office	18	18
Sewage Pumping Stations	14	14
Sewage Treatment Plants	100	100
Sewer Repair	128	128
Street Cleaning	335	335
Street Tree Planting	27	27
Street Repair	151	152
Bridges & Tunnels	22	22
TOTAL	1627	1624

During the fiscal year, the Payroll and Personnel Division of the Bureau of Accounts prepared and processed a total of 1489 timerolls involving an expenditure of $12,437,301.05. Included in this payroll expenditure is a substantial amount for temporary employees.

There was a total of 352 requisitions for permanent civil service employees to replace vacancies due to deaths, resignations, transfers, retirements, etc. However, because of difficulty in recruiting civil service employments, it was necessary to employ 587 non-civil service employees for these authorized positions. The inter-relationship of personnel records to the preparation of these payrolls necessitated 2968 reports to the Department physician of new cases of illness to verify legitimacy of sick pay as required by Orinance. There were also 216 accident reports filed with the necessary follow-up procedures required which are not included in the reports to the Department physician.

PURCHASING DIVISION

During the fiscal year 1962-1963, the Purchasing Division of the Bureau of Accounts processed 7,065 requisitions for purchase orders and/or revolving fund orders in the total amount of approximately $1,752,182.41 involving 32,060 items. Outside purchases from vendors also brought about the issuance of 6,607 delivery orders involving 26,428 items and 12,264 storeroom tags involving the delivery of 36,792 items and 112 requisitions on the storekeeper involving 1,680 items.

For the supplying of materials for the varied activities of the Department, a sub-storeroom and a material yard are conducted. Through these means, along with the requisitions for purchase orders and/or revolving fund orders, 25,181 transactions were handled involving the delivery of 95,890 items to jobs. Stores inventory on hand as of June 30, 1963 amounted to $68,836.24.

ACCOUNTING DIVISION

Financial statements are prepared monthly for each bureau of the Department showing the allowances, encumbrances, expenditures and unencumbered balances for each item in their respective budgets. Reports in detail are prepared frequently during the year for various current projects. Final reports for projects completed from the Special Gas Tax Fund are prepared and forwarded to the State of California, Division of Highways, in accordance with the Streets and Highways Code.

Job costs pertaining to damages to City property under the jurisdiction of the Department are compiled and forwarded to responsible parties for collection. These costs amounted to $19,106.93 for the fiscal year and embraced 320 cases, covering damages to automotive equipment, street structures, bridges, street signs, traffic signs, street trees, traffic signals, traffic devices and damage to public buildings.

The accounting section of the bureau handled the fiscal processing of 219 formal contracts during the year, covering street improvements, sewers, sewage treatment plants, schools, hospitals, firehouses, and various projects for other City departments under programs which are expected to continue into subsequent years, as follows:

	Number of Contracts	Amount
Road Fund	30	$1,934,371.71
Special Gas Tax Street Improvement Fund	6	571,308.40
General Fund - Public Buildings	30	877,426.67
General Fund - Sewers	3	33,816.00
Recreation - Park	38	440,075.65
San Francisco Unified School District	40	1,155,036.50
1944 Sewer Bond Fund	2	39,317.00
1947 Street Improvement Bond Fund	1	238,888.50
1954 Sewer Bond Fund	9	878,501.17
1954 San Francisco Hospital Bond Fund	1	41,936.50
1954 Laguna Honda Home Bond Fund	1	14,489.00
1955 Recreation Park Bond Fund	2	393,479.31
1956 Hall of Justice Bond Fund	2	11,320.00
1956 School Bond Fund	30	1,216,443.50
1959 Civic Auditorium Bond Fund	2	89,866.00
1960 Sewer Bond Fund	10	620,610.50
Public Utilities	1	138,089.00
Public Welfare	1	4,500.00
Legion of Honor	1	3,589.00
Department of Electricity	1	170,697.45
Assessment Against Private Property	5	209,675.66
Trust Fund	2	228,464.50
Publicity and Advertising	1	5,484.00
TOTAL	219	$9,317,386.02

In addition to the above 88 informal bids were processed, as follows:

Public Buildings	$ 38,854.50
Schools	11,082.50
Recreation - Park	7,896.00
Health Department	14,438.71
Road Fund	26,516.00
Candlestick Park	1,070.00
Miscellaneous	3,297.20
TOTAL	$103,154.91

BUREAU OF ACCOUNTS

Interdepartmental Service Under Work Order Procedure For:

Schools	$ 1,488,109.05
Recreation - Park	285,438.20
Maintenance & Repair - Public Buildings	823,311.95
Replacement & Reconstruction - Public Buildings	80,921.38
Side Sewer Installations	217,544.24
Capital Improvements	306,747.98
Special Gas Tax	1,266,782.88
Special Inspection	13,172.51
State Highways	75,785.86
Miscellaneous	64,275.65
1947 Street Improvement Bonds	30.92
1947 Park - Recreation Bonds	3.60
1944 Sewer Bonds	9,992.81
1954 Sewer Bonds	1,332,799.65
1954 Laguna Honda Home	988.16
1960 Sewer Bonds	460,977.35
1948 Sewage Treatment Bonds	98,974.21
1956 School Bonds	289,540.47
1954 San Francisco Hospital Bonds	61,183.67
1952 Firehouse Bonds	752.63
1955 Playground & Recreation Center Bonds	34,763.60
1956 Hall of Justice Bonds	34,613.63
1958 Park - Recreation Bonds	61,506.01
1959 Civic Auditorium Bonds	33,426.82
1959 Palace of Fine Arts Bonds	8,610.80
Redevelopment Agency	13,085.72
War Memorial	7,439.03
De Young Museum	9,771.44
Legion of Honor	13,233.19
Engineering	7,582.68
Public Utilities	39,150.94
Publicity and Advertising	4,183.57
Road Fund	1,177,161.57
Department of Electricity	138,328.06
Street Cleaning - State Highways	50,577.62
Candlestick Park	85,736.21
Sewage and Waste Treatment Plants	15,417.09
Purchasing Department	4,394.21
Public Welfare Department	37,628.66
Steinhart Aquarium	4,700.21
Public Health	7,933.74
TOTAL INTERDEPARTMENTAL SERVICE	$ 8,626,577.97

CENTRAL PERMIT BUREAU

Sidney Franklin, Supervisor

FUNCTIONS

The principal function of the Central Permit Bureau is the issuance of all permits under the jurisdiction of the Department of Public Works, and the collection of the fees required therefor. This includes permits for the erection, alteration, demolition and moving of buildings (as well as the subsidiary permits in connection therewith), permits for all types of billboards and signs, and permits involving the use or excavations of streets and sidewalks. All plumbing, gas appliance and electrical permits are now also issued in this bureau.

It is the duty of the staff of the Central Permit Bureau to receive applications for these various types of permits, route them for processing, issue the permits when the applications are properly approved, and collect the necessary fees.

The Central Permit Bureau is the custodian of all public records relevant to permits issued by the Department of Public Works, and of all plans and specifications in conjunction with these permits. These records date back to the 1906 Earthquake and are assuming more importance each year in determining the status of buildings affected by our slum clearance program.

Another service performed in this bureau is the assignment of street addresses to all new buildings and the elimination of possible confusion resulting from improper existing numbers. Our official house number records are constantly referred to by realtors, title insurance companies, etc., when the correct street numbers for buildings must be obtained.

It is also the duty of the Central Permit Bureau to render bills for all claims for damages to property under the jurisdiction of the Department of Public Works, and for costs in excess of deposits in the installation of side sewers. The moneys collected from these bills, as well as all other receipts of the department, are cleared through this bureau for deposit in the proper funds in the City Treasury.

PERSONNEL

The personnel of the Central Permit Bureau, as of June 30th, 1963, was as follows:

1 Supervisor
2 Senior Clerks
2 Senior Clerk Typists
2 Tellers
1 Clerk Stenographer
3 Clerk Typists

THE FOLLOWING TABLES ILLUSTRATE THE SCOPE OF THE ACTIVITIES OF THE CENTRAL PERMIT BUREAU

TABLE I

PERMITS ISSUED AND FEES RECEIVED

	1962-1963		1961-1962	
	Permits	Fees	Permits	Fees
Buildings	14,765	$ 410,442	13,754	$ 308,151
Billboard	46	200	62	224
Demolition	492	5,280	405	3,545
Boiler Installations	407	2,035	263	1,520
Boiler Inspections	902	6,932	944	6,465
*Street Space	1,340	139,852	858	57,701
House Numbers	869	3,916	852	3,357
House Moving	58	1,160	65	1,600
Excavations (Pub. Utilities, etc.)	13,845	27,690	14,405	28,810
*Excavations (Excl. of Util.)	892	5,826	809	4,099
Flue Registrations	94	1,880	88	1,640
Flues - New Buildings	45	443	52	99
Flues - Old Buildings	176	614	182	568
Flues - New Buildings, Coupons	3,650	1,825	3,025	1,425
Flues - Old Buildings, Coupons	610	1,220	630	1,100
Posting Notices	839	2,173	773	2,066
Flower Markets	46	1,536	40	1,500
Advertising	13	1,584	30	3,352
Surveys	27	13,015	24	7,890
Engineering Inspections	59	21,045	49	12,015
Electrical Inspections	13,812	256,822	13,216	202,325
	Included in Elec. Insp.	4,252	Included in Elec. Insp.	4,713
Electrical Sales	2,212	28,181	2,241	28,411
Plan Checking	7,529	124,898	7,537	87,296
Architect's Investigation	56	840	84	1,245
Garage Door Coupons	900	2,700	975	2,925
Hearings For Substitute Materials	29	3,070	21	2,160
Plumbing Inspections	20,625	197,646	20,873	185,674
Gas Appliance Inspection	Included in Plbg.Insp.		Included in Plbg.Insp.	
Journeyman Plbr. License		2,224		944
Gas Appliance Dealer		810		590
Residential Inspection Reports	16	1,015	24	1,400

	1962-1963		1961-1962	
	Permits	Fees	Permits	Fees
Dump Permits	7	475	10	525
Blasting Permits	6	72	10	120
TOTAL - TABLE I	90,918	1,304,123	88,028	993,780
TOTAL - TABLES II & III	2,809	7,455,159	2,306	4,607,707
GRAND TOTAL - PERMITS & REVENUE	93,727	8,759,282	90,344	5,601,487

*Permits and Fees only.
See Table II for Refundable Deposits

TABLE II

MISCELLANEOUS DEPOSITS

	1962-1963		1961-1962	
REFUNDABLE DEPOSITS	Permits	Deposits	Permits	Deposits
Street Space	*	25,460	*	21,385
Sub-Sidewalks	46	54,120	14	14,310
Deposit on Plans	1,971	71,499	1,539	65,455
Excavations	*	1,063	*	871
TOTAL	2,017	152,142	1,553	102,021

*Street Space and Excavations
require both a Fee and a Deposit.
Amounts shown are Deposits only.

PARTIALLY REFUNDABLE DEPOSITS				
Side Sewers	613	338,900	607	330,250
Excess Costs	60	12,612	48	3,427
AMOUNT REFUNDED		129,045		111,900
New Revenue applied or to be applied to Installation Costs				
AGENCY DEPOSITS		222,467		221,777
Street Improvement Bonds	119	14,278	98	11,479
TOTAL	2,809	517,932	2,306	447,177

TABLE III

MISCELLANEOUS REVENUE

	1962-1963 REVENUE	1961-1962 REVENUE
General Fund	$ 366,944	$ 134,223
Road Fund	2,771,868	2,973,014
Highway Trust Fund	18,220	29,823
Special Gas Tax - Street Improvement Fund	3,771,664	994,681
1954 Sewer Bond Fund	1,505	25,760
Refundable Deposit - 912.3 Fund	261	----
Litter Control Fund	234	55
1944 Sewer Bond Fund	3,540	810
1947 Street Improvement Fund	----	2,000
Palace of Fine Arts Fund	----	164
1960 Sewer Bond Fund	2,690	----
Repair Defective Sidewalk Revolving Fund	301	----
TOTAL	$ 6,937,227	$ 4,160,530

TABLE IV

STATEMENT OF CONDITION
SPECIAL FUNDS AS OF JUNE 30, 1963

	Balance Jun. 30, 1962	Deposits 1962-1963	Refunds 1962-1963	Balance Jun. 30, 1963
Special Permit Fund (Street Space and Sub-Sidewalk Deposits)	$47,546.00	$79,580.00	$15,601.00	$111,525.00
Street Improv. Fund	465.27	---	---	465.27
Excavation Fund	2,362.80	1,068.50	1,221.50	2,209.80
Deposits on Plans	$12,768.00	$71,499.00	$69,795.00	$14,472.00

APPENDIX I

BUREAU OF ENGINEERING CURRENT CONTRACT DATA SUMMARY
Showing All Contract Work Awarded or Underway

July 1, 1962 - June 30, 1963

Table	Type of Construction	No.	Contracts Awarded Aggregate Value	Amount Expended Fiscal Year 1962 - 1963
A	Major Thoroughfares	4	1,517,372.58	901,784.95
B-1	Streets - Private Contracts	28	724,336.58	540,392.26
B-2	Streets - Assessment Proceedings	5	366,572.11	301,164.86
B-3	Streets - Public Contract City Pay	14	771,169.77	618,757.78
C	Traffic Signals and Channel	1	23,737.20	121,211.00
D-1	Sewers - Vitrified Clay & Concrete	7	491,015.74	698,366.30
D-2	Sewers - Concrete Monolithic	7	1,277,753.11	1,054,689.78
E	Recreation & Park	27	491,793.80	349,412.62
F	Miscellaneous	44	1,279,203.38	1,194,742.47
	TOTALS	137	$6,942,954.87	$5,780,522.02

APPENDIX I

BUREAU OF ENGINEERING CURRENT CONTRACT DATA SUMMARY

On the following pages appear separate tables of Current Contracts for each of the types of construction listed above. The source of the funds used to finance each project is indicated in the Tables according to the following:

Abbreviation Legend

Legend	Description of Fund
GEN	General Fund City and County
SRd	Special Road Improvement Fund
MS	Special Gas Tax Improvement Fund
AP	Assessed to Property Benefiting Under the Street Improvement Ordinance of 1934
PPO	Cost Borne by Property Owners Under Private Contract
44SB	Bond Issue Voted by Citizens on November 7, 1944 - $12,000,000
47SIB	Bond Issue Voted by Citizens on November 4, 1947 - $22,850,000
48STB	Bond Issue Voted by Citizens on June 1, 1948 - $15,000,000
54SB	Bond Issue Voted by Citizens on June 8, 1954 - $12,645,000
60SB	Bond Issue Voted by Citizens on November 8, 1960 - $12,500,000
47OSP	Bond Issue Voted by Citizens on November 4, 1947 - $ 5,000,000
54LHB	Bond Issue Voted by Citizens on November 2, 1954 - $ 5,475,000
DE	Department of Electricity Funds
MR	Municipal Railway Funds
RecP	Recreation Park Department Funds
HJu	Bond Issue Voted by Citizens on June 5, 1956 - $19,475,000
WD	Water Department Funds
PGE	Pacific Gas and Electric Company Funds
WP	Western Pacific Funds
SP	Southern Pacific Funds

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 A-MAJOR THOROUGHFARES

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 - 1963	FUND
Webster Street (Widening) Golden Gate Avenue - Post Street The Lowrie Paving Co., Inc.	3-28-62	6-10-63	270,670.31	270,670.31	MS 44SB 54SB GEN DE WD
Lake Merced Boulevard (Reconstruction) Sunset Blvd. to Winston Drive Chas. L. Harney, Inc.	8-22-62	1-25-63	162,140.83	162,140.83	MS SRd
Evans Avenue (Reconstruction & Construct R.R. Bridge) M & K Corporation	8-29-62	30%	911,268.90	170,370.00	SP GEN MS 54SB
McLaren Park Roads (Construction of) The Fay Improvement Co.	9-12-62	65%	336,789.04	191,430.00	SRd
Geneva Avenue (Widening) San Jose Avenue to Southern Freeway S. J. Amoroso Construction Co.	12- 5-62	6-18-63	107,173.81	107,173.81	MS
Total Awarded and Expended During Fiscal Year			$1,517,372.58	$901,784.95	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 B-1 STREETS, PRIVATE CONTRACTS, PAID BY PROPERTY OWNERS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Alder Street - Ankeny - 225' N. Harkness The Fay Improvement Co.	Gr	12-19-58	20%	2,000.00
14th Avenue - 100' - 400' N. Rivera A. Malerbi Sand	Gr	8-14-59	0%	5,000.00
Rolph Street - Crocker-Amazon #3 Gellert Bros.	Gr S-C-P-Spillway	3-30-60	90%	9,750.00
33rd Avenue (E. SW) - Noriega Street 93' S Herbst Nor. Prop.	Parking Bay	8-17-60	90%	1,000.00
Stanford Heights Avenue Los Palmos Drive NE End Gellert Bros.	S-C-P Spillway	10-28-60	6-27-63	13,000.00
Alice Griffith Garden Homes Project - S.F. Housing Authority	Gr S-C-P	11-16-60	10-31-62	140,000.00
Locksley Avenue Lawton Street S. End - R. F. Galli	Lights	6-23-61	10-30-62	3,000.00
*Oxford Street - Bacon St. Wayland St. Wayland St. Oxford St. Cambridge St. The Fay Improvement Co.	C-S-P	6-23-61	7-3-62	15,000.00
*Pasadena Street County Line Velasco Ave. Gellert Bros.	Spillway C-S-P Wall	9-22-61	7-26-62	24,800.00
Gates St. (E/2) 200' - 250' S. of Crescent Arthur Haskins	C-S-P	2- 2-62	11- 8-62	1,250.00

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 B-1 STREETS, PRIVATE CONTRACTS PAID BY PROPERTY OWNERS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Berry Street (N. Side) E. of 5th Street Southern Pacific Company	Culvert	2-21-62	9-28-62	250.00
Campbell Avenue Somerset St. Alpha St. The Fay Improvement Co	S	5-16-62	7-19-62	2,000.00
Castro Street Duncan Street 176' S. Pacific Pavements Co.,Ltd.	Gr	6-29-62 - - - -	11- 5-62	7,800.00
Sunnydale Green Subdivision and Schwerin Street O. K. Construction Co.	Sewers and Appurtenances	8-1-62	11-30-62	61,816.10
Hayes Street - Stanyan Schrader Webster Clay Sacramento Abbett Electric Co.	Traffic Safety Light	8-17-62	1-21-63	13,000.00
Vista Francisco - Subdivision No. 1 Gellert Bros.	Curbs, Sewers, Paving, Stwys. and Light	8-22-62	60%	131,000.00
Calhoun Terraces Thornton Constr. Co.	Ret. Wall	9-14-62	11-28-62	6,000.00
Sunnydale Green Subdivision and Schwerin Street Eichler Homes, Inc.	Curbs, Pave. and Lights	9-21-62	90%	91,000.00
Custer Avenue Third Newhall Pacific Pav. Co., Ltd.	Grading, Sewers Curbs, Paving, Conform.	10-19-62	3-26-63	32,512.00
Amber Drive Near Coralino Lane Rooz Impr., Ltd.	Remove Curb Inlet	10-26-62	11-28-62	300.00
Excelsior Ave. (N/Side) East of Ina Court Pacific Pvts. Co.,Ltd.	Sewer, M.H. Trap and Y's	10-26-62	12-31-62	1,541.00

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963

B-1 STREETS, PRIVATE CONTRACTS PAID BY PROPERTY OWNERS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Midtown Terrace Subdiv. Aquavista Way N/of Skyview Way Gellert Bros.	Additional Sewers	10-26-62	0%	3,034.00
Melba Court The Fay Impr. Co.	Sewers, Curbs Paving	11-9-62	3-15-63	13,107.48
Mansell Street West of Somerset Street Gellert Bros.	Sewers	12-5-62	1-15-63	6,500.00
End of Jessie Street Phoenix Simpton Co.	Lower Exist. Ramp. Drain Trench	12-7-62	0%	500.00
Quint Street Davidson Ave. - Rankin St. Washington Packing Corp.	Spur Track	12-12-62	0%	6,500.00
Octavia St. (Relocation) O'Farrell St. - Geary St. Eichler Homes, Inc.	Grading, Sewers Curbs Pavement	12-12-62	4-4-63	13,000.00
Excelsior Ave & E/Munich 75' ± Pacific Pvts. Co., Inc.	Sewers	12-21-62	12-31-62	1,541.00
Armstrong Avenue Lucky Lager Brew. Co.	Sewers	1-4-63	3-26-63	12,000.00
Gough Street at O'Farrell St. Western Addition Project Eichler Homes, Inc.	Remove Curb Returns. C.B. & Conform Work	1-11-63	2-13-63	1,000.00
Wallace Avenue S/E'ly from Ingalls St. Darwin, Bryan, Ray F. Jones, et al	Curb and Pavement	1-11-63	3-15-63	875.00
Armstrong Avenue Newhall St. - Shoup Ave. Lucky Lager Brewing Co.	Curbs and Paving	1-23-63	6-10-63	17,400.00
20th St., 35' ± E/Noe St. Pacific Pvt. Co.	Sewer	2-1-63	4-24-63	800.00

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963

B-1 STREETS, PRIVATE CONTRACTS, PAID BY PROPERTY OWNERS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Burrows Street Hamilton St. Bowdoin St Villa Portola, Inc.	Grading and Excavation	2-1-63	40%	6,600.00
Battery Street 25' S. of S. Curb Line Sacramento Street The Lowrie Pav. Co.,Inc.	New M. H.	2-15-63	3-18-63	400.00
Mendosa Avenue and Gateway Court Chas. L. Harney, Inc.	Sewers, Curbs, Pav. Sidewalk	2-20-63	40%	26,434.00
Texas & 22nd Streets W. P. Railway	8" Discharge Line	3-6-63	3-13-63	1,000.00
Sonora Lane S/O O'Farrell Street Joseph S. Quan	2" Reinf. Gunite Blanket Planter Boxes	3-6-63	0%	500.00
Diamond Heights Units II and III P & Z Co.	S-Stabil.	3-11-63	45%	257,976.00
*University St. (E/2) Olmstead - Mansell The Fay Improvement Co.	S - C - P	4-24-63	0%	9,000.00
Tennessee Street (E/2) Marin - 325 S Prodanovich, Inc.	S	5-24-63	6-5-63	9,000.00
Total Awarded During Fiscal Year				$724,336.58
Total Value of Work Done During Fiscal Year				$540,392.26

*Remaining Portions Improved Under Public Contract

S = Sewers; C = Curbs: P = Paving;
Gr = Grading; SW = Sidewalk:
Splwy = Spillway: Ltg. = Lighting
Stwy. = Stairway

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963   B-2 STREET ASSESSMENT PROCEEDINGS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Powhattan Avenue Wool - Moultrie Chas. L. Harney, Inc.	Gr-S-C-P	12-21-60	7-6-62	$ 13,332.89 (6,145.59)
Bemis Street Roanoke St. - Mateo St. The Lowrie Pav. Co., Inc.	Gr-S.C.P	5-19-61	7-20-62	54,692.92 (41,343.72)
*Pasadena Street (Portion) County Line Velasco Ave. Gellert Bros.	Gr-S-C-P	9-20-61	7-26-62	1,776.82 (165.78)
Velasco Avenue Santos St. - Carrizal St. The Fay Improvement Co.	Gr-C-P-SW	1-31-61	9-11-62	10,388.55 (7,760.78)
Ingalls Street Thomas Ave. - Yosemite Ave. Wallace Ave. Ingalls St. 150' E McGuire & Hester	Gr-S-C-P	4-4-62	1-23-63	106,977.50 (50,969.38)
Palmetto Avenue Ramsell Street - Victoria The Lowrie Pav. Co.,Inc.	Gr-S-C-P	4-4-62	11-9-62	7,268.29 (1,152.55)
10th Avenue Quintara - Mendosa Chas. L. Harney, Inc.	Gr-S-C-P	5-16-62 - - - -	85%	18,190.00
Anderson Street Powhattan - Bernal Heights M. J. Lynch	Gr-S-C-P	6-20-62	11-16-62	8,954.15 (4,521.23)
Crestmont Drive Oakhurst Lane 100'S/o Devonshire Way Gellert Bros.	Sewers, Curbs, Paving, Etc.	7-25-62	12-10-62	25,044.88 (11,364.81)

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 B-2 STREET ASSESSMENT PROCEEDINGS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Griffith Street Gilman Ave. - 100' N'ly Chas. L. Harney, Inc.	Curbs, Pavement Sidewalks	7-25-62	9-7-62	3,089.68 (182.29)
16th Street 7th Street - 3rd Street 16th Street 3rd Street - Illinois St. 6th Street 16th St. - 300'± N'wly Chas. L. Harney, Inc.	Grading, Sewers, Curbs, Paving Traffic Islands, etc.	7-25-62	30%	299,236.00 (135,324.00)
Toland Street McKinnon Ave. - Oakdale Ave. Chas. L. Harney, Inc.	Grading, Sewers, Curbs, Pav.	10-10-62	40%	23,678.80 (0)
6th Avenue Kirkham St. - Locksley Ave. The Fay Improvement Co.,Inc.	G-S-C-P	12-5-62	4-23-63	15,522.75 (7,950.43)
Total Awarded During Fiscal Year				$366,572.11
Total Value of Work Done During Fiscal Year				301,164.86

( ) = Estimated or Final Amount of City Obligation
Balance Through Assessment of Property Benefited
City Funds From Special Road Improvement Fund

* Remaining Portions Improved Under Private Contract

S = Sewers; C = Curbs; P = Paving; Gr = Grading; SW = Sidewalk

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 B-3 STREETS - PUBLIC
CONTRACTS - CITY PAY

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962- 1963	FUND
*Oxford Street (W/2) Bacon St. - Wayland St. Wayland St. (S/2) Oxford St. - Cambridge St. (Constr) The Fay Improvement Co.	6-23-61	7-3-62	13,411.90	13,411.90	SRd
Stevenson Street 3rd St. - 4th St. (Reconstruction) Chas. L. Harney, Inc.	8-2-61	7-13-62	23,657.58	3,047.58	SRd
Lake Merced Boulevard and Other Streets (Resurf) Pacific Pavements Co.,Ltd.	12-13-61	3-30-62	98,344.35	20,044.35	MS
Steiner Street Grove St. - Hayes St. (Pvt. Reconstr.) Pacific Pvts. Co., Ltd.	4-4-62	8-14-62	13,688.28	13,688.28	SRd
Anza Street and Others (Resurfacing) Bragato Paving Co.	4-11-62	8-21-62	61,216.96	56,266.96	MS
Harrison Street (Pavement Reconstruction) Between 19th and 20th Sts. The Fay Improvement Co.	7-3-62	3-1-63	85,768.55	85,768.55	SRd
Hotaling Place (Pavement Reconstruction and Sewer Replacement) Between Washington & Jackson The Lowrie Pav. Co., Inc.	8-1-62	70%	24,410.00	0	SRd 54SB Hotal. Pl.Impr. Group
Castro Street (Pavement Reconstr) Between 19th and 20th Sts. The Fay Improvement Co.	8-15-62	10-5-62	25,942.99	25,942.99	SRd
Parkmerced Street (Street Resurfacing) The Lowrie Pav. Co., Inc.	9-5-62	12-17-62	162,140.83	162,140.83	MS

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 B-3 STREETS - PUBLIC CONTRACT - CITY PAY

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962- 1963	FUND
30th Street (Reconstruction of) Between San Jose Avenue and Church Streets Pacific Pavements Co.,Ltd.	11-28-62	4-6-63	43,418.51	43,418.51	SRd
El Camino Del Mar and Other Sts. (Resurfacing) The Lowrie Paving Co., Inc.	12-12-62	3-13-63	81,082.28	81,082.28	MS
Western Addition Redevelopment Project Area A-1 (Pav. Reconstr. & Resurfacing) Pacific Pavements Co., Ltd.	1-23-63	98%	68,313.00	55,800.00	SRd
25th Avenue (Parking Lane Reconstr. & Resurfacing) Anza to Geary Boulevard Kunz Paving Co.	3-6-63	6-5-63	16,069.03	16,069.03	MS
Buchanan Street Broadway to Vallejo Sts. (Reconstruction of Parking Lane) The Lowrie Pav. Co., Inc.	3-20-63	6-3-63	6,907.78	6,907.78	SRd
Mallorca Way (Pvt. Reconstr.) Beach to Alhambra Sts. Pacific Pavements Co.,Ltd.	4-17-63	47%	20,833.00	0	SRd
*University St., (W1/x ½) Grading, Sewers, Curbs & Pav.) Olmstead to Mansell The Fay Imp. Co., Ltd.	5-1-63	0%	7,438.50	0	SRd
Albion St., (Pvt. Reconstr.) 16th to 17th Sts. Pacific Pavements Co.,Ltd.	5-1-63	2%	20,228.00	0	SRd
Hudson, Innes, Jerrold and Kirkwood Aves. & Rankin, Selby and Toland (St. Recon. and Related Work) The Lowrie Pav. Co., Ltd.	5-1-63	10%	189,558.56	16,110.00	SRd
Arkansas, 19th, Missouri and Sierra Sts. (Restore) Potrero Tunnel Pacific Pav. Co., Ltd.	5-10-63	6-27-63	19,058.74	19,058.74	SRd
Total Awarded & Expended During Fiscal Year			$771,169.77	618,757.78	

* Remaining Portions Improved Under Private Work

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 C TRAFFIC SIGNALS AND CHANNELIZATION

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
Harrison Street (Signals) 16th Street - 17th Street Abbett Electric Corp.	8-4-61	4-20-62	11,067.55	1,527.55	GEN
Traffic Signals at Isolated Crossings (Contr. No. 19 Install) R. Flatland Co.	1-17-62	10-1-62	29,484.17	15,714.17	MS
Geary Expressway Contract No. 6 (Traffic Signals) Steiny & Mitchel, Inc.	3-28-62	8-29-62	15,300.86	7,740.86	SRd
Van Ness Avenue and Western Addition Various Loc. (Conv. Traffic Sig. Contr.) Emsco Electric Corporation	5-16-62	11-7-62	68,711.22	68,711.22	SRd State Highway
Peralta Avenue (Modify Traffic Islands) York and Hampshire Sts. The Fay Improvement Co.	5-31-62	9-20-62	3,780.00	3,780.00	SRd
	- - - -		- - - - -		
Isolated Intersections Contract #20A (Installation and Modification) R. Flatland Co.	7-11-62	3-5-63	23,737.20	23,737.20	SRd
Total Awarded and Expended During Fiscal Year			$ 23,737.20	121,211.00	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 D-1 SEWERS, PIPE, VITRIFIED CLAY AND CONCRETE

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
Vicente Street (Construction) 33rd Ave. - 34th Ave. Sunset Blvd. - 108' W.42nd Ave. The Fay Improvement Co.	3-7-62 - - -	11-27-62	283,535.56 - - - - -	230,345.56	60SB
Lake Merced Pumping Station (Force Main & Inter. Sewer) Prodanovich, Inc.	11-14-62	99%	157,105.00	138,960.00	60SB
Potrero Hill Tunnel (W.P.Tunnel) (Sewer Replacement) Missouri, Arkansas & 19th The Fay Improvement Co.	11-16-62	1-8-63	16,040.34	16,040.34	44SB
Hanover Street (Sewer Replacement) Watt Ave. to Pope St. The Lowrie Paving Co., Inc.	1-16-63	4-19-63	23,740.80	23,740.80	54SB
Clipper Street (Replace Sewer) Diamond to Noe Street McGuire and Hester	2-6-63	6-4-63	137,814.20	137,814.20	60SB
Toland St. and Jerrold Ave. (Construction Sewer) Associated Pipe Lines	3-6-63	6-21-63	108,143.40	108,143.40	54SB GEN SRd
Woodside Avenue (Sewer Construction) Vasquez Ave. to Laguna Honda Boulevard McGuire & Hester	3-27-63	6-14-63	22,172.00	22,172.00	54SB
26th Street (Replace Sewer) Sanchez to Church Streets The Fay Improvement Co.	4-17-63	83%	26,000.00	21,150.00	60SB
Total Awarded and Expended During Fiscal Year			$491,015.74	698,366.30	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 D-2 SEWERS - CONCRETE MONOLITHIC

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
N.P.C.S. Secs. D-6 and D-7 (Construction) Walter Lenkeit	12-21-60	2-27-63	220,453.33	120,193.33	54SB
Division St. Auxiliary Sewer Sec. A (Construction) M & K Corporation	10-4-61	11-14-62	530,058.40	168,978.40	54SB 60SB SP WP
N.P.C.S. Sec. C-1 (Construction) William R. Cole	1-17-62	72%	346,057.50	211,160.00	54SB
McAllister Street (Gunite Lin.) Gough Street - Van Ness Ave. Cement Gun Constr. Co.	4-4-62	9-1-62	11,252.74	11,252.74	GEN
N.P.C.S. Sec. C-2A (Construction) A. C. Bashnick	6-13-62	6-20-63	195,817.00	195,817.00	54SB
N.P.C.S. Sec. C-2B (Construction) M. J. Lynch	6-13-62	99%	168.751.70	151,650.00	54SB
Baker Street (Gunite Lining) Bay St. - North Point St. Cement Gun Constr. Co.	6-13-62	9-21-62	12,199.20	12,199.20	GEN
Griffith St. & Palou Ave. (South Basin Sewers) (Modifying Sewer) Shafter Ave. to Fitch St. P & Z Co.	8-1-62	1-4-63	38,556.25	38,556.25	60SB
N.P.C.S. Sec. B-3A (Pumping Station) Drumm Street S & Q Construction Co.	11-21-62	0%	477,777.00	0	54SB
Lake Merced Sewage Pumping Station (Construction) Fullerton Constr. Co.	1-16-63	27%	237,000.00	57,960.00	60SB
North Point Collecting Sewers Sec. D-3 (Construction) M & K Corporation	2-27-63	17%	479,330.00	77,490.00	54SB

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963

D-2 SEWERS - CONCRETE MONOLITHIC

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
Van Ness Avenue (Guniting Sewer) McAllister to Grove Streets Emsco of San Francisco	2-27-63	4-17-63	9,432.86	9,432.86	GEN
N.P.C.S. Sec. B-4 (Diversion and Outfall Str.) Jackson Street Baldwin, Erickson & Tait	5-1-63	1%	13,485.00	0	54SB
Bush Street (Guniting Sewer) Leavenworth - Jones Taylor - Stockton Emsco of San Francisco	6-14-63	0%	22,172.00	0	GEN

Total Awarded and Expended During Fiscal Year $1,277,753.11 $1,054,689.78

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
Tennis Courts (Resurfacing) Golden Gate Park #389/4645 Malott-Peterson-Grundy	12-21-61	8-23-62	20,947.00	1,947.00	Budget
Midtown Terrace Playground #388/4699 Mt. Sutro Res. (Roof Slab) Martinelli Construction	2-14-62	10-22-62	63,317.00	2,161.65	Budget
Mission Playground (Hangers for Exist. Lights)(106) Electr. Constr. & Sales Co.	4-11-62	7-18-62	1,585 00	1,585.00	Budget
McCoppin Square #392/4698 (Resurfacing and Painting Lines) Malott-Peterson-Grundy	2-14-62	9-4-62	5,979.00	597.90	Budget
Conservatory Golden Gate Park (Catwalk) #393/4747 Michel & Pfeffer Iron Works	3-28-62	9-26-62	9,965.00	5,465.00	Budget
Running Track #399/4748 Golden Gate Park (Rehabilitation) Ben Bearse Co.	3-28-62	7-26-62	3,857.00	579.00	Budget
Cages and Fences #400/4778 (Rehabilitation) S. F. Zoo Realock Fence	4-11-62	9-17-62	5,350.00	5,350.00	Budget
Kezar Stadium (Service Floodlight Transformers) (108) West Coast Electr. Co.	4-11-62	9-6-62	1,790.00	1,790.00	Budget
Funston Playground (Service Floodlight Transformers) Emsco Electr. Co.	4-11-62	9-11-62	1,424.00	1,424.00	Budget
Balboa Park #407/4865 (Irrigation & Misc.) Wm. McIntosh & Son	5-2-62	9-5-62	37,090.28	2,090.28	State Freeway Funds
Douglas Playground, Potrero Hill Playground, Lincoln Park (Convenience Stations) #401/4809 Wilner Constr. Co.	5-16-62	10-19-62	10,797.98	5,497.98	Budget

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963   E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
Lafayette Square #402/4810 (Irrigation System) Sacramento Irrig. Engrs.	5-16-62	10-5-62	17,793.21	12,723.21	Budget
Sharp Park Golf Course #405/4811 (Repl. Portion of 24" Outfall Line) Assoc. Pipe Line, Inc.	5-16-62	7-25-62	3,770.00	3,770.00	Budget
Conservatory - Golden Gate Park (Ladder Rail) (110) Michel & Pfeffer Iron Works	5-31-62	8-31-62	1,606.00	1,606.00	Budget
Arboretum #379/4854 (Irrigation and Landscape) Bernard Gayman	6-20-62	5-8-63	152,016.39	152,016.39	Budget & Bequest Funds
Conservatory #404/4855 Golden Gate Park (Painting and Glazing) Manor Painters	6-20-62	11-1962	17,579.32	17,579.32	Budget
Convenience Facilities #406/4894 Aquatic Park (Rehabilitate) Arthur W. Baum	7-3-62	10-18-62	6,228.00	6,228.00	Budget
Golden Gate Park Stadium Hot Water Heating (Replace) #408/4897 Cornely Co.	7-3-62	11-9-62	3,595.00	3,595.00	Budget
Fleishhacker Pool Htg. Plant Smoke Stack (Remove) #409/4900 J. H. McFarland	7-18-62	12-7-62	5,107.85	5,107.85	Budget
San Francisco Zoo #400/4778 (Paddock Reconstruction) U.S. Steel Corporation	8-8-62	9-25-62	5,350.00	5,350.00	Budget
Aquatic Park #410/4900 Maritime Museum (Convert Boilers) J. McGoldrick	8-8-62	11-28-62	4,295.00	4,295.00	Budget

BUREAU OF ENGINEERING CONTRACTS 1962-1963 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
Fleishhacker Pool #412/4900 Bath House (Reconstr. Electr. System) Emsco Electr. Corp.	8-8-62	11-23-62	3,267.00	3,267.00	Budget
Camp Mather #411/4934 Lodge Building (Repl. Refrig. System) Al Sturni Co.	8-15-62	11-28-62	7,672.00	7,672.00	Budget
Fleishhacker Pool Bath House (Repl. Hot Water System) #413/4941 J. McGoldrick Htg. Co.	8-29-62	1-28-63	6,093.28	6,093.28	Budget
Academy of Sciences Electr. Serv. (Conversion) #414/4942 Abbett Electr. Corp.	8-29-62	2-12-63	17,126.00	17,126.00	Budget
Funston Playground Golf Driving Cages (Repl. Fabric) #415/4968 U.S. Steel Corp. Cyclone	9-19-62	1-9-63	7,320.00	7,320.00	Budget
Various Playgrounds #416/5045 Chain Link Fence (Replace) Anchor Post Products, Inc.	11-14-62	1-7-63	2,345.00	2,345.00	Budget
Mission Playground Circuit Breakers (Replace) (113) Emsco Electr. Corporation	11-14-62	1-4-63	888.00	888.00	Budget
Various Playgrounds #418/ (Resurface) Malott & Peterson-Grundy	12-19-62	90%	41,453.30	33,039.00	Budget
Merced Heights Playground South Wall (Underpin) #422/5089 B.R.B. Homes, Inc.	1-16-63	2-1-63	2,148.00	2,148.00	Budget
Silver Tree Day Camp Window Screens (Install) (114) Ernest J. Nelson	2-20-63	6-7-63	1,591.00	1,591.00	Bond

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
Fleishhacker Zoo #421/5162 Kitchen (Repl.Refrig. System) I. J. Westlund Co.	3-6-63	5-3-63	1,729.00	1,729.00	Budget
Fleishhacker Playfield Mothers' Building (Repl. Htg. System) #423/5190 Alladin Htg. Corp.	3-20-63	85%	7,965.00	0	Budget
Fleishhacker Zoo Power Cable (Replace) #424/5191 Ecco-Phoenix Electr. Corp.	3-20-63	5-9-63	4,206.76	4,206.76	Budget
San Francisco Zoo #420/5228 Chain Link Fence (Replace) U.S. Steel Corporation	4-17-63	20%	11,003.52	0	Budget
San Francisco Zoological Gardens Roads and Paths (Replace Portions) #429/5240 Kunz Paving Co.	5-1-63	6-29-63	10,629.00	10,629.00	Budget
Various Recreation Centers Gym Floors (Seal) #428/5242 A B C Hardwood Floor Co.	5-1-63	92%	7,245.78	6,700.00	Budget
Mission Pool Promenade Deck (Replace) #427/5241 Love and Haun	5-1-63	6-26-63	3,900.00	3,900.00	Budget
McLaren Park (Improvement) #425/5265 Piombo Construction Co.	5-15-63	0%	309,525.31	0	Bond
Golden Gate Park Merry Go Round #430/5266 (Painting) A. Quandt & Sons, Inc.	5-15-63	0%	3,245.00	0	Budget
Aquatic Park (Miscl. Repairs) #435/ Robert L. Sage	5-29-63	0%	9,388.00	0	Budget
Strawberry Hill Reservoir (Install Overflow) #419/433 Mitchell Plumbing Co.	5-29-63	10%	6.215.00	0	Budget

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
Hamilton Recreation Center Floors (Seal) #436/ Martin Fried, Inc.	6-5-63	0%	2,262.00	0	Budget
Total Awarded and Expended During Fiscal Year			$491,793.80	349,412.62	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
Fire Alarm Systems Various Schools (Install) Emsco Electric Co.	10-4-61	7-20-62	144,502.85	16,432.85	Education
Geary Expressway Contract #5 (Landscaping) Paradise Engr. Constr. Co.	1-24-62	7-19-62	7,020.87	1,980.87	47SIBd
Steinhart Aquarium Salt Water Supply System (Constr.) R. B. McNair Sons	1-31-62	1-4-63	110,855.81	27,605.81	Park-Rec.
"Path of Gold" Poles on Market Street (Rehabil.) Abbett Electric Corp.	1-31-62	3-11-63	70,657.50	56,257.50	Muni Ry PG&E SRd
S.E.S.T.P. 22" Waste Return Piping (Impr.) C. Norman Peterson	2-14-62	7-31-62	13,575.10	1,605.10	60SBd
City Hall - S. W. Quadrant (Replace Piping) Jesse M. Lumsden	2-21-62	7-9-62	12,067.00	2,347.00	GEN
Filbert Street Montgomery St. - Sansome St. (Extend AWSS) Mitchell Plumbing Co.	3-7-62	2-21-63	27,003.15	27,003.15	GEN
Laguna Honda Home (Install) Washing Machines Western Plumbing & Htg. Co.	4-11-62	9-21-62	33,370.68	29,230.68	GEN
Golden Gate Park Cross-Over Dr. Drainage Fac. (Constr.) Associated Pipeline, Inc.	5-2-62	8-6-62	3,798.00	3,798.00	GEN
Bridgeview Dr. & Newhall St. Gore Corner (Fence & Landscp.) A. & J. Shooter, Inc.	5-2-62	7-26-62	2,827.00	577.00	SRd
County Jail #2 - San Andreas Pump Station (Pump Replacement) S & Q Construction Co.	6-27-62	3-15-63	8,888.00	8,888.00	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 F- MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
Scott Street O'Farrell to Turk Street (Install St. Lighting) Emsco Electr. Corp.	7-11-62	1-10-63	14,880.60	14,880.60	SRd
Civic Auditorium (Replace Steam & H.W. Facil.) Jesse M. Lumsden	7-11-62	5-3-63	42,390.00	42,390.00	GEN
Twenty-third and Indiana Sts. to 26th and 3rd (Test Borings) J. N. Pitcher Co.	7-11-62	9-13-62	2,282.28	2,282.28	54SBd
W.P.R.R. Tunnel in Potrero Hill (Stabilize Streets) Morrison Knudsen Co.	7-12-62	4-12-63	672,497.76	672,497.76	SRD
Taylor Street Jefferson to Bay Sts. (Install St. Lighting) West Coast Electric Co.	8-1-62	12-27-62	8,118.50	8,118.50	SRd
Sacramento Street (Planting Trees) Presidio to Van Ness Avenue A. & J. Shooter, Inc.	8-3-62	1-21-63	10,817.80	10,817.80	SRd
Clay Street (Fire Alarm System) Battery & Front Streets Emsco Electric Corporation	9-5-62	10-23-62	1,273.28	1,273.28	GEN
Laguna Honda Home (Vents in Ldy) Apex Sheet Metal Works	9-12-62	99%	23,927.00	21,060.00	GEN
Golden Gateway Redevelopment (Test Borings) Clay and Front Streets P & Z Co., Inc.	9-12-62	11-1-62	3,343.50	3,343.50	54SBd
10th Avenue (Retaining Wall) South of Quintara Street Dean C. Bueler, Inc.	10-10-62	3-5-63	4,450.00	4,450.00	SRd
Hassler Health Home (Auger Borings) Geo. F. Casey Co.	10-24-62	1-30-63	600.00	600.00	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963   F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
Under Market Street Viaduct (Pedestrian Stairs & Walkway) Grandview Ave. & Cuesta Court McCormick Bldrs.	10-31-62	3-3-63	18,155.05	18,155.05	SRd
Twin Peaks Boulevard (Guard Railing and Chain Link Fence) Bernal Cut El Dorado Fence Co., Inc.	11-14-62	2-21-63	24,797.49	24,797.49	SRd
Junipero Serra Boulevard (Replace Irrigation System) Ocean to Holloway Avenue Geo. E. McFarland	11-21-62	80%	33,825.33	24,300.00	SRd
Youth Guidance Center Nursery Cottage (Vent. System) Wm. McIntosh & Son	12-12-62	5-31-63	16,933.10	16,933.10	GEN
Twin Peaks Boulevard (Street Lights) St. Germaine to Palo Alto Ave. Emsco Electric Corporation	1-23-63	6-10-63	1,426.00	1,426.00	SRd
N.P.S.T.P. (Improved Spray Water System) H. Goldman & Sons	1-23-63	99%	29,252.40	24,750.00	60SB
Sloat Boulevard and San Jose Ave. (Chain Link Fence) Coast Fence Co.	1-25-63	3-21-63	675.00	675.00	SRd
Log Cabin Ranch (Sewage Treatment Plant) Dennis R. Gibson Co.	1-30-63	51%	33,728.00	24,750.00	GEN
Laguna Honda Home Power Plant (Soft Water Supply System) DeNarde Construction Co.	2-1-63	99%	31,910.00	27,900.00	GEN
San Francisco County Jail No. 2 (Repair Elevator #2) Otis Elevator Co.	2-6-63	51%	7,488.00	6,300.00	GEN
Yosemite Pumping Station (Alterations) R. W. Johnston & Son	2-6-63	6-21-63	7,374.00	7,374.00	54SB

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963   F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
N.P.S.T.P. (Light Fixtures) Electrical Constr. & Sales Co.	2-6-63	35%	5,460.00	2,115.00	60SB
Sunglow Lane (Lights for Stairway) Silver Ave. to Gladstone Dr. Electr. Constr. & Sales Co.	2-6-63	6-5-63	1,631.00	1,631.00	SRd
Public Library - Main (Repair Elevators) Otis Elevator Co.	2-13-63	0%	11,618.00	0	GEN
Geneva Avenue (Test Borings) South Hill Blvd. in Vicinity of Cayuga P & Z Co., Inc.	2-13-63	4-10-63	2,491.00	2,491.00	60SB
Filbert Street (Install. of St. Lighting System) Scott to Divisadero Emsco Electric Corp.	2-13-63	6-14-63	5,232.51	5,232.51	SRd
460 McAllister Street (Impr. of Exist. Air Conditioning) Alladin Heating Corp.	2-20-63	91%	4,878.00	4,320.00	GEN
California Palace of Legion of Honor (Improve Foyer Ltg.) Lincoln Park Casella Lighting Co.	2-27-63	90%	3,589.08	3,150.00	GEN
Clarendon Avenue (Constr. Sidewalk) Lincoln Way to Buena Vista Ave. Kunz Paving Co.	3-6-63	29%	14,777.00	0	SRd
Candlestick Stadium (Painting) Scoreboard Bowman Chan Painting Co.	3-8-63	4-15-63	1,860.00	1,860.00	GEN
Telegraph Hill Area Underground Dist. #169 (St. Lighting & Fire Alarm System) Ecco-Phoenix Elec. Corp.	3-20-63	32%	26,564.00	7,740.00	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1962-1963 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962- 1963	FUND
Candlestick Park Stadium Pavement Repair Parking Area Kunz Paving Co.	3-22-63	5-23-63	14,587.64	14,587.64	GEN
Candlestick Park - Parking Area (Exit Gates) Anchor Post Products, Inc.	3-27-63	5-14-63	927.00	927.00	GEN
Quintara Street Stairway (Handrailing) 14th to 15th Avenue Paul Shepard Co. Inc.	5-3-63	6-14-63	2,410.00	2,410.00	SRd
Sunset Boulevard (Landscaping) Irving St. to Sloat Blvd. West Bay Landscaping	4-10-63	0%	9,802.50	0	SRd
Marina Sewage Pumping Station (Replace Valves Eff. & Inf. Lines) Mitchell Plumbing Company	4-24-63	0%	35,480.00	0	60SB
Post Street, Geary Boulevard and O'Farrell (Street Lights) Franklin to Van Ness Abbett Elec. Corporation	4-17-63	87%	13,335.00	10,170.00	SRd
Candlestick Park Stadium (Gates) Rest Rooms Hoeck Iron Works	4-10-63	6-6-63	3,308.80	3,308.80	GEN
Sunset Boulevard (Lighting) South Drive to Lake Merced Boulevard Abbett Elec. Corporation	5-1-63	0%	106,792.86	0	SRd
Lombard Street (Install Street Lights) Van Ness to Hyde Street Bay West. Elec. Corp.	5-15-63	0%	7,400.00	0	SRd

BUREAU OF ENGINEERING CONTRACTS 1962-1963 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1962 1963	FUND
Winston Drive (Constr. S. W.) Lake Merced Boulevard - 740 E Peira & Son	6-12-63	0%	1,679.00	0	SRD
San Jose Avenue (Slide Repairs) Miguel - Mateo Emsco of San Francisco	6-17-63	70%	6,347.50	0	SRd
Total Awarded and Expended During Fiscal Year			$1,279,203.98	1,194,742.47	

APPENDIX II

BUREAU OF ARCHITECTURE
CURRENT CONTRACT DATA SUMMARY
Showing All Contract Work Awarded or Under Construction
July 1, 1962 - June 30, 1963

Table	Type of Construction	Contracts No.	Awarded Aggregate Value	Amount Expended Fiscal Year 1962-1963
A-1	New School Construction	3	$ 957,402.00	$2,253,010.00
A-2	Misc. Alterations- Schools	60	1,258,950.00	1,175,534.00
A-3	Acoustical Jobs	0	0	0
A-4	Roofing Jobs	4	15,135.00	23,140.00
A-5	Resilient Floors	0	0	0
A-6	Int. & Ext. Painting	12	169,003.00	206,624.00
A-7	Yard Paving	2	4,780.00	80,238.00
B-1	Fire Dept. New Construction	0	0	251,122.00
B-2	Fire Dept. Reconstruction	1	3,732.00	3,732.00
C-1	S.F. General Hospital	3	102,518.00	154,580.00
C-2	Laguna Honda Hospital	3	16,816.00	119,801.00
C-3	Health Center Building	1	12,890.00	0
D	M.H. deYoung Memorial Museum	0	0	1,125.00
E	Youth Guidance Center	0	0	2,463.00
F	Civic Center	5	118,084.00	117,465.00
G	Hall of Justice	4	13,710.00	19,787.00
H	Miscellaneous	21	632,888.00	4,735,739.00
	Totals	119	$3,305,908.00	$9,144.360.00

On the following pages appear separate tables of current contracts for each of the types of construction listed above. The source of the funds used to finance each project is indicated in the tables according to the following:

Abbreviation Legend

Designation	Description of Fund
General	General Fund City and County
1956 School	Unified School District Bond Issue voted by citizens on November 6, 1956 $27,000,000.
District	Funds of S.F. Unified School District

1952 Fire	Fire Department Bond issue voted by citizens on November 4, 1952, $4,750,000.
1954 Hospital	Hospital Bond Issue voted by citizens on November 2, 1954, $5,830,000.
Def. Maint.	Deferred Maintenance funds, Laguna Honda Home annual budget.
1954 Laguna Honda	Laguna Honda Home Bond issue voted by citizens on November 2, 1954, $5,475,000.
1955 P & RC	Recreation and Park Bond issue voted by citizens on November 8, 1955, $7,248,000.
1956 H of J	Hall of Justice Bond issue voted by citizens on June 5, 1956, $19,475,000.
1958 Rec. Park	Recreation and Park Bond Issue voted by citizens on June 3, 1958.
1960 Aud.	Civic Auditorium Bond issue voted by citizens November 3, 1959, $7,575,000.
Maint. and Repair	Annual Budget items.
Child Care	S.F. Unified School District, Special Fund.
Road Fund	1962-1963 Road Fund Appropriation.

CURRENT CONRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
A-1 NEW SCHOOL CONSTRUCTION					
Southwest Sr. HS (1849) General Construction Pacific Coast Builders	6-24-60	1-10-63	$4,081,150	$ 548,927	1956 School
Southeast High School (1916) General Construction M & K Corporation	12-2-60	99.9%	4,324,000	1,123,808	1956 School
Jefferson Elem. School (1924) General Construction Jos. Bettancourt	12-16-60	1-9-63	707,750	162,783	1956 School
Golden Gate Elem.School (1950) General Construction Jos. Bettancourt	2-15-61	1-31-63	575,000	171,925	1956 School
Lowell High School (2157) Phase II General Construction Pacific Coast Builders	12-5-62	54%	225,200	121,608	1956 School
City College- Addition to Smith Hall (2200) Arntz Construction Co.	2-20-63	14%	374,685	52,456	1956 School
City College- Ornamental Hort. Facility (2211) Wm. McIntosh & Son	2-27-63	20%	357,517	71,503	1956 School
Total Awarded and Expended During Fiscal Year			957,402	2,253,010	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
A-2 MISCELLANEOUS ALTERATIONS					
Various Schools (2053) Auto. Fire Sprinklers C-1 Allan Auto. Sprinkler Corp.	12-8-61	5-29-62	$ 46,490	$ 465	1956 School
Sherman School (2073) Smoke Barriers Stenmark Construction Co.	1-12-62	8-22-62	8,094	2,024	1956 School
Various Schools (2068) Auto. Fire Sprinklers A & B La Dew Engr., Inc.	1-31-62	7-17-62	47,895	24,905	1956 School
Galileo High School (2080) Bleacher Seats Ben Bearse	2-21-62	7-30-62	9,685	9,394	District
J. Lick Jr. HS (2086) New Doors & Smoke Barriers Stenmark Construction Co.	2-21-62	12-13-62	38,576	28,932	1956 School
Balboa High School (2071) Alt. for Fire Safety Stenmark Construction Co.	3-21-62	11-16-62	79,572	75,593	1956 School
Various Schools (2069) Smoke Barriers Stenmark Construction Co.	3-21-62	11-30-62	15,558	14,936	1956 School
Geo. Peabody School (2078) Rehabilitation of Toilet Areas Wm. McIntosh & Son	4-4-62	8-27-62	29,118	27,080	District

Various Schools (2084) Auto. Fire Sprinklers Grinnell Co. of Pacific	4-4-62	9-20-62	$ 54,693	$ 51,958	1956 School
Aptos Jr. High School (2087) New Doors & Smoke Barriers Wm. McIntosh & Son	4-13-62	9-26-62	51,312	48,233	1956 School
Francisco Jr. HS (2107) Misc. Alterations & Repairs H. E. Rahlmann Co.	4-25-62	9-18-62	10,181	9,468	District
Various Schools (2077R) Add. & Modifications to Fire Alarm Systems Emil Weber Electric Co.	4-25-62	10-16-62	17,853	8,034	1956 School
Portola Jr. HS (2075) New Doors & Smoke Barriers Wilco Construction Co.	4-25-62	12-6-62	32,400	27,540	1956 School
Jean Parker School (2095) Toilet Areas & Misc. Work Wm. McIntosh & Son	5-2-62	8-27-62	17,930	15,250	District
Polytechnic HS (2106) Misc. Repair Work Wilco Construction Co.	5-2-62	11-26-62	39,840	31,872	District
Sarah B. Cooper School (2119) Repairs to Ext. Entrances Wm. McIntosh & Son	5-16-62	7-18-62	3,384	1,692	District

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
A-2 MISC. ALTERATIONS (cont.)					
Golden Gate and J. Swett Schools Fire Sprinklers (2108) Approved Auto. Sprinkler Co.	5-16-62	10-30-62	$ 45,990	$ 43,691	1956 Schools
Various Schools (2120) Re-glazing & Misc. Work Stenmark Construction Co.	5-16-62	2-19-63	13,458	13,458	1956 School
B. Franklin Jr. HS (2115) Auto Fire Sprinklers Barnard Engr. Co.	5-31-62	1-8-63	67,510	67,510	1956 School
G. Washington HS (2114R) Lighting fixtures for Library Abbett Elec. Corp.	5-31-62	9-19-62	3,300	3,300	District
Portola HS & Redding School Fire Alarm Systems (2112R) Abbett Elec. Corp.	5-31-62	3-6-62	11,444	10,872	District
H. Mann JHS (2110) Doors & Smoke Barriers Stenmark Construction Co.	6-20-62	3-15-62	27,000	27,000	1956 School
A. Lincoln HS (2139) Retaining Wall & Fence Rpr. H. E. Rahlmann Co.	6-27-62	10-15-62	8,156	8,156	District
Central JHS (2137) Interior Alterations Stenmark Construction Co.	6-27-62	4-4-63	17,417	7,967	1956 School

Polytechnic HS (2105) Int. & Ext. Alterations for Fire Safety Stenmark Construction Co.	6-27-62	4-4-63	$ 27,792	$ 27,792	1956 School
J. Denman JHS (2138) New Gas Service & Related WOrk H. E. Rahlmann Co.	6-27-62	11-15-62	3,548	3,548	District
F. Burke to Bd. of Ed. Whse Portable Classroom (2091R) De Narde Construction Co.	6-27-62	8-29-62	1,934	1,934	District
Portola JHS (2094) Window Replacement, Painting & General Repair Arntz Construction Co.	6-27-62	12-21-62	98,760	98,760	District

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Various Schools (2159) Reroofing, Tile Repair and Misc. Works Robt. F. Smith Co.	8-3-62	11-3-62	4,045	4,045	District
Golden Gate School (2158) Reroofing & Misc. Work Robt. F. Smith Co.	8-8-62	11-3-62	6,881	6,881	District
Various Schools (2156) Auto. Firesprinklers Allan Auto. Sprinkler Corp.	8-8-62	5-27-63	63,981	63,981	1956 School
Portable Classroom Bldg. (2152) J. H. McFarland Corp.	8-8-62	5-31-63	13,530	13,530	District

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1963	Fund
A-2 MISC. ALTERATIONS (cont.)					
Burnett School Annex (2169) Reconstruction of Metal Stairs Wm. McIntosh & Son	8-22-62	1-11-63	$ 8,625	$ 8,625	District
Various Schools (2163) Chain Link Fencing & Misc. Work J. H. McFarland Corp.	8-22-62	12-10-62	5,659	5,659	District
John O'Connell Voc. School (2154R) New Doors for Paint Spray Rm. Wm. McIntosh & Son	8-24-62	10-25-62	751	751	District
LeConte & Gompers Schools (2170) Wire Mesh Enclosures Wm. McIntosh & Son	9-5-62	12-12-62	3,045	3,045	District
Clarendon School (2176) New Walkway & Catch Basin Lakehurst Construction Co.	9-12-62	11-15-62	1,798	1,798	1956 School
Various Schools (2164) Auto. Fire Sprinklers Geo. M. Robinson Co.	9-12-62	3-4-63	73,684	73,684	1956 School
City College of S.F. (2187) Wire Mesh Fence U.S. Steel Corp.	9-21-62	11-27-62	2,360	2,360	District
City College of S.F. (2178) Relocation of Portable Classrooms Wm. McIntosh & Son	9-21-62	11-30-62	8,581	8,581	District

City College of S.F. (2189) Two Hot Houses Antone Petersen & Sons	9-28-62	11-9-62	$ 5,350	$ 5,350	District
Various Schools (2175) Auto. Fire Sprinklers A & B LaDew Engr.Co.	10-3-62	3-24-63	39,240	39,240	1956 Schools
Board of Education Bldg. (2177) Conversion of Boilers to Gas & Oil Firing John McGoldrick	10-3-62	2-8-63	17,915	17,915	District
Geo. Peabody School (2182) Misc. Repair Work H. E. Rahlmann Co.	10-3-62	4-19-63	1,635	1,635	District
Various Schools (2184) Heat Detectors Elec. Const. & Sales Co.	10-31-62	99%	12,889	12,760	1956 School
Sunshine Orthopedic School (2207) New Concrete Driveway Golden West Concrete Co.	1-9-63	3-4-63	880	880	District
Lowell High School (2204) Portable Classroom Bldgs. Antone Petersen & Son	1-9-63	6-5-63	47,708	47,708	District
Miraloma School (2208) Resilient Flooring Peterson-Cobby Co.	1-9-63	3-20-63	634	634	District

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
A-2 MISC. ALTERATIONS (cont.)					
Various Schools (2199) Auto. Fire Sprinklers Approved Auto. Sprinkler Co.	1-30-63	73%	$ 49,789	$ 36,346	1956 School
General Administration Bldg. (2210) New Entrance to Boiler Room H. E. Rahlmann Co.	1-30-63	4-11-63	4,884	4,884	District
Louise M. Lombard School (2143) Reglazing & Door Replacement Wm. McIntosh & Son	2-6-63	45%	15,254	6,864	1956 School
Geo. Washington HS (2201) Three Portable Classroom Bldgs. Stenmark Construction Co.	2-20-63	50%	24,442	12,221	District
Francisco JHS (2209) New Doors & Misc. Works Stenmark Construction Co.	2-27-63	30%	14,574	4,372	1956 School
Various Schools (2223) Heat Detectors Golden Gate Elec. Co.	2-27-63	70%	19,240	13,468	1956 School
Various Schools (2213) Auto. Fire Sprinklers- Ser. E-5 Bay area Mech. Contractors	2-27-63	5%	69,908	4,995	1956 School
Portola JHS (2224) Portable Classroom Bldgs. H. E. Rahlmann Co.	2-27-63	5-31-63	16,483	16,483	District

Various Schools (2239) New Yard Benches Wm. McIntosh & Son	3-20-63	75%	$ 5,334	$ 4,000	District
Everett & J. Lick JHSs (2029) Modern. of Science Rooms Wilner Construction Co.	3-20-63	15%	22,960	3,444	District
Spring Valley School (2245) Fence Repair & Painting Ben Bearse	4-3-63	65%	3,000	1,950	District
Various Schools (2241) Alt. for Fire Safety Wilner Construction Co.	4-3-63	1%	6,336	63	1956 School
Com. Stockton School (2242) Ext. Stair Guards H. E. Rahlmann Co.	4-3-63	0	2,881	0	District
Com. Sloat School (2232R) New Kitchen Unit in Teachers' Room Ben Bearse	4-3-63	99%	2,600	2,574	District
Presidio JHS (2226) Portable Classrooms H. E. Rahlmann Co.	4-3-63	95%	11,936	11,340	District
Galileo HS (2215) Auto. Fire Sprinklers Geo. M. Robinson Co.	4-3-63	5%	57,789	2,889	1956 School

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
A-2 MISC. ALTERATIONS (cont.)					
Redding School (2234) New Toilet Facility H. E. Rahlmann Co.	4-3-63	0	$ 1,947	0	District
Mission HS (2216) Auto. Fire Sprinklers California Auto.Sprinkler Co.	4-17-63	5%	53,380	$ 2,670	1956 School
Francisco JHS (2042) Modernization of Science Rooms Stenmark Construction Co.	5-8-63	18%	30,975	5,576	District
Roosevelt JHS (2253) Alterations to Locker Room Ercoa, Inc.	5-8-63	0	15,083	0	1956 School
Geo. Washington HS (2225) Misc. Alterations Ercoa, Inc.	5-8-63	0	13,778	0	District
Various High Schools (2256) Acoustical Ceilings and Lighting Fixtures Arthur W. Baum	5-8-63	40%	25,200	10,080	1956 School
Bessie Carmichael School (2230) Portable Classrooms H. E. Rahlmann Co.	5-8-63	5%	5,626	281	District
Geo. Washington HS (2252) Auto. Fire Sprinklers Barnard Engineering Co.	5-8-63	0	39,802	0	1956 School

H. Hoover JHS (2258) Portable Classrooms H. E. Rahlmann Co.	5-8-63	25%	$ 21,683	$ 5,421	District
Various Schools (2251) Misc. Repair Work Stenmark Construction Co.	5-8-63	35%	38,560	13,496	District
Roosevelt JHS (2247) Auto. Fire Sprinklers Auto. Sprinkler Engr. Co.	5-22-63	0	28,493	0	1956 School
Presidio JHS (2265) Alt. for Fire Safety Ben Bearse	5-22-63	0	7,167	0	1956 School
Visitacion Valley School (2227) Portable Classroom Bldgs. Adam Arras & Son	5-22-63	0	109,979	0	District
Everett JHS (2269) Rehabilitation of Food Lab. Ben Bearse	5-22-63	5%	19,131	957	1956 School
Roosevelt JHS (2272) Alt. for Fire Safety H. E. Rahlmann Co.	6-5-63	0	7,098	0	1956 School
Golden Gate School (2266) Kitchen Area Additions Wm. McIntosh & Son	6-5-63	2%	36,712	734	1956 School

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
Lowell HS (2257) Remodeling Classroom to Chemistry Laboratory DeNarde Construction Co.	6-5-63	0	$ 27,400	0	1956 School
City College (2264) Track Reconstruction & Miscellaneous Work Bernard Gayman	6-5-63	0	37,327	0	1956 School
Everett JHS (2261) Auto. Fire Sprinklers Fire Protection Engr. Inc.	6-14-63	0	35,759	0	1956 School
Various Schools (2276) Heat Detectors Electrical Construction & Sales Co.	6-21-63	0	10,536	0	1956 School
Various Schools (2279) Installation of Acoust. Ceilings The Sono-Cell Co.	6-21-63	0	3,689	0	1956 School
Balboa High School (2280) Lighting Fixtures in Gyms & Typing Room Sutton & Frost	6-21-63	0	9,100	0	1956 School
Mission HS (2281) New Lighting Fixtures Coopman Electric Co.	6-28-63	0	19,444	0	1956 School
Various Schools (2274R) Intercom. & Clock Systems Emil J. Weber Elec. Co.	6-28-63	0	14,500	0	1956 School
Total Awarded and Expended During Fiscal Year			1,258,950	$ 1,175,534	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
A-4 ROOFING JOBS					
Various Schools (2151) Reroofing & Misc. Work Bender Roofing, Inc.	5-31-62	12-6-62	$ 8,763	$ 8,763	District
	- - - -	- - - -	- - - -	- - - -	
Emerson School (2147) Reroofing & Waterproofing Work Regal Roofing Co.,Inc.	7-25-62	11-23-62	8,187	8,187	District
Various Nurseries (2197) Reroofing Regal Roofing Co.,Inc.	11-28-62	3-26-63	2,181	2,181	District
Sir Francis Drake Annex (2203) Reroofing Western Roofing Service	12-12-62	4-4-63	976	976	District
Jedediah Smith Annex (2246) Reroofing New Art Roofing Co.	4-17-63	80%	3,791	3,033	District
Total Awarded and Expended During Fiscal Year			15,135	23,140	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
A-6 INTERIOR & EXTERIOR PAINTING (cont.)					
Northridge & Potrero Terrace Nurseries & School Age Centers (2202) Painting Manor Painters	12-12-62	3-7-63	$ 4,977	$ 4,977	Child Care
Douglas School (2228) Painting A. Quandt & Sons, Inc.	3-6-63	65%	7,267	4,724	District
Le Conte School (2237) Painting Martin Fried, Inc.	3-20-63	30%	5,787	1,738	District
James Denman JHS (2233) Painting J. Wm. Sorensen, Inc.	3-20-63	40%	14,956	5,982	District
Parkside School (2244) Painting W. G. Thompson	4-3-63	45%	11,438	5,147	District
Geo. Washington HS (2229) Painting W. G. Thompson	4-3-63	40%	24,680	9,872	District
Noriega Home School (2243) Painting Martin Fried$ Inc.	4-3-63	10%	3,170	317	District
Balboa HS (2249) Painting D. E. Burgess Co.	5-8-63	35%	25,666	8,983	District

Hancock School (2248) Painting Martin Fried, Inc.	5-8-63	38%	$ 26,429	$ 10,043	District
Raphael Weill School (2263) Painting Robt. Thompson, Inc.	5-8-63	25%	23,340	5,835	District
Aptos & Roosevelt JHSs (2268) Painting Gyms J. Wm. Sorensen, Inc.	5-22-63	0	15,333	0	District
Total Awarded and Expended			$169,003	$206,624	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
A-7 YARD PAVING					
City College (2104) Track Resurfacing The Lowrie Paving Co.	4-11-62	10-5-62	$ 1,975	$ 197	1956 School
Northridge Nursery & School-Age Center (2121) Yard Paving & Resurfacing Work The Fay Improvement Co.	5-16-62	8-30-62	1,690	845	District
Various Schools (2130) Yard Paving & Painting Game Lines Malott & Peterson-Grundy	5-31-62	8-10-62	45,397	45,397	District
Various Schools (2131) Resurfacing Yard Paving & Painting Game Lines Malott & Peterson-Grundy	6-20-62	10-23-62	29,387	29,387	District
Lowell High School (2198) New Concrete Sidewalk Love & Haun	11-28-62	1-15-63	1,100	1,100	District
Edison Child Care Center (2259) Yard Paving & Fence Work Kunz Paving Co.	5-8-63	90%	3,680	3,312	Child Care
Total Awarded and Expended During Fiscal Year			$ 4,780	$ 80,238	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
B-1 FIRE DEPARTMENT NEW CONSTRUCTION					
Extension to S.F. Fire Dept. Training Center (1977) Ivan A. Sorg	6-9-61	7-6-62	$ 58,808	$ 1,176	Real Property
Firehouse for Engine #22 (2020) General Construction Peter Sartorio	9-29-61	11-2-62	202,657	58,771	1952 Fire
Firehouse for Engine #23 (2052) General Construction Ira H. Larsen Co.	4-18-62	81%	236,018	191,175	General
Total Awarded and Expended During Fiscal Year			0	$ 251,122	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
B-2 FIRE DEPARTMENT RECONSTRUCTION					
Engine House #37 (2179) Door Replacement H. E. Rahlmann Co.	10-3-62	4-10-63	$ 3,732	$ 3,732	General
Total Awarded and Expended During Fiscal Year			$ 3,732	$ 3,732	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
C-1 S.F. GENERAL HOSPITAL					
Ward Bldgs. 20 & 30 (1965) Structural Reinforcing on Fifth Floor Wm. McIntosh & Son	6-14-61	9-5-62	$ 24,807	$ 3,721	General
Medical Record Facilities (2082) Alt. to Ward #21 Wm. McIntosh & Son	2-14-62	4-17-62	13,895	13,895	General
Buildings 1, 1A, 1B, 1C (2089) Roofing & Parapet Wall Repairs Wm. McIntosh & Son	3-21-62	9-4-62	16,145	161	Def. Maint.
Psychiatry Building (2056) Alt. to First Floor Stenmark Construction Co.	5-2-62	12-7-62	23,598	21,238	General
New Turbine Generator Unit & Related Work (2126) Brayer Electric Co.	5-25-62	23%	82,888	19,064	1954 Hosp. Def.Maint.
Fence Repair & Misc. Work Part II (2144) De Narde Construction Co.	6-22-62	11-2-62	25,846	25,846	Def. Maint.
Psychiatry Bldg. #90 (2145) Elevator Modifications Westinghouse Electric Corp.	6-22-62	1-29-63	13,859	13,859	Def. Maint.

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
C-1 S.F. GENERAL HOSPITAL (cont.)					
Isolation Bldg. #100 (2162) Gen. Construction of New Gunite Shear Walls & Related Work Wm. McIntosh & Son	8-1-62	12-4-62	$ 18,645	$ 18,645	General
Service Bldg. #6 (2192) Kitchen Alterations B. Stuart MacIntyre, Jr.	1-16-63	98%	38,929	38,151	1954 Hospital General
Dental Clinic (2109) General Construction Stenmark Construction Co.	4-24-63	0	44,944	0	1954 Hospital
Total Awarded and Expended During Fiscal Year			$ 102,518	$ 154,580	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	AWarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
C-2 LAGUNA HONDA HOME					
Ward Buildings M & O and Related Work (1961) Arntz Construction Co.	6-16-61	8-31-62	$ 229,907	$ 73,570	Def. Maint.
Repairs to Dishwashers and Related Work (2083R) Bureau of Building Repair	4-11-62	3-25-63	4,850	4,850	Def. Maint.
Clarendon Hall (2092) Terrazzo Floor Repairs Travertite Co., Inc.	4-11-62	7-28-62	14,910	149	Def. Maint.
Ward Bldgs. M & O (2035) Resilient Flooring Houston's Linoleum	5-23-62	9-20-62	4,787	4,787	Def. Maint.
Main Kitchen Alterations (2102) J. H. McFarland Corp.	6-20-62	11-23-62	11,994	11,994	Def. Maint.
Emergency Lighting System (2136) Hampton Elec. & Mfg. Co.	6-20-62	9-21-62	8,867	8,867	Def. Maint.
Demolition and Removal of Incinerator & Related Work (2146) Cleveland Wrecking Co.	6-22-62	8-29-62	1,395	1,395	Maint. & Repair

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
C-2 LAGUNA HONDA HOME					
Demolition & Removal of Farm Buildings (2172) Cleveland Wrecking Co.	8-22-62	11-7-62	$ 600	$ 600	Maint.& Repair
Carport & Tool Room (1962) Wilner Construction Co.	11-28-62	3-24-63	13,589	13,589	1954 Lag.Honda
Deck Covering for Clarendon Hall (2289) Fidelity Roofing Co.	6-14-63	0	2,627	0	Maint.& Repair
Total Awarded and Expended During Fiscal Year			$ 16,816	$119,801	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
C-3 HEALTH CENTER BLDG.					
New Entrance Doors and Related Work (2219) De Narde Construction Co.	2-7-63	0	$ 12,890	0	General
Total Awarded and Expended During Fiscal Year			$ 12,890	0	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
D M. H. DE YOUNG MEMORIAL MUSEUM					
Kress Wing (2150) Additional Lighting Bay Elect. Construction Corp.	6-22-62	7-30-62	$1,125	$1,125	General
Total Awarded and Expended During Fiscal Year			0	$1,125	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
E YOUTH GUIDANCE CENTER					
Girls' Cottages (2117) Additions and Alterations Thomas E. McCormick	5-16-62	7-25-62	$ 3,790	$ 2,463	General
Total Awarded and Expended During Fiscal Year			0	$ 2,463	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
F CIVIC CENTER					
City Hall Alterations to Board of Supervisors' Meeting Room (2074) Wm. McIntosh & Son	3-28-62	8-23-62	$ 24,070	$ 8,424	General
City Hall Annex (2141) Replace Sidewalk door for Freight Elevator Phoenix-Simpton Co.	6-6-62	7-27-62	850	850	General
City Hall Annex (2140R) Pass. Elevator Repair Work Westinghouse Electric Corp.	6-13-62	10-19-62	1,772	1,772	General
City Hall Annex (2153) Waterproofing Treatment to East Wall Atlas Painting Co.	7-25-62	9-20-62	3,750	3,750	General
City Hall-North Wing (2167) Alt. to offices Stenmark Construction Co.	10-26-62	5-16-63	68,375	68,375	General
City Hall- Civil Services Office (2196) Alt. to First Floor Ben Bearse Co.	1-4-63	3-29-63	3,772	3,772	General

City Hall- Room 65A (2220) Electronic Data Processing Room H. E. Rahlmann Co.	2-8-63	4-30-63	$ 23,064	$ 23,064	General
City Hall- Alterations for Offices for City Attorney (2238) Wilner Construction Co.	4-17-63	39%	19,123	7,458	General
Total Awarded and Expanded During Fiscal Year			$118,084	$117,465	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
G- HALL OF JUSTICE					
Special Acoustical Treatment (2103) The Brookman Co.	4-25-62	10-2-62	$ 1,927	$ 963	1956 H of J
Elevator Door Locks (2116) Otis Elevator Co.	5-2-62	5-8-63	1,887	943	1956 H of J
Police Department New Wire Mesh Work (2124) Michel & Pfeffer	6-13-62	10-2-62	1,477	1,477	1956 H of J
Auditorium (2133) Hollow Metal Security Doors Wm. Montgomery	6-20-62	8-29-62	718	718	1956 H of J
City Prison- 6th Floor Steel Jail Doors (2125) Herrick Iron Works	6-29-62	10-23-62	1,976	1,976	1956 H of J
Police Department (2160) Add. to Pneumatic Tube System ATC Engineers, Inc.	8-1-62	9-20-62	3,925	3,925	1956 H of J
Muni. Court Jury Lounge (2149) Stenmark Construction Co.	8-8-62	12-9-62	7,395	7,395	1956 H of J
Window Glass Tinting (2168) Robt. Thompson	9-5-62	11-15-62	460	460	1956 H of J
Sandblasting Ext. Terrazzo Walkway (2171) J. H. Kaatz Co.	9-5-62	10-16-62	1,930	1,930	1956 H of J
Total Awarded and Expended During Fiscal Year			$13,710	$19,787	

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
H MISCELLANEOUS					
Steinhart Aquarium (1846) Additions & Alterations Ira H. Larsen Co.	7-27-60	99%	$1,227,711	$ 233,265	1958 Rec-Park
Golden Gate Park Repairs to Ship GJOA (2048) West Winds, Inc.	1-17-62	7-5-62	6,975	70	General
Auditorium Rehabilitation (1955R) Perini Corporation	5-2-62	60%	6,623,000	3,973,800	1960 Aud.
Stern Grove Clubhouse (2070) Fire Damage De Narde Construction Co.	5-16-62	9-20-62	13,292	8,540	General
150 Otis St. (2040-Phase IX) Acoustical Work Western Asbestos Co.	5-16-62	7-3-62	1,495	15	General
Anza Branch Library (2142) Window Repairs Paige Glass Co.	6-22-62	8-31-62	1,950	1,950	General
Golden Gate Park (2090) Alt. to Handball Courts J. H. McFarland Corp.	6-27-62	1-15-63	12,994	12,994	General
Hunters Point Gym (2129) Wire Mesh Screens over Windows Wm. McIntosh & Son	6-27-62	10-18-62	5,338	5,338	General

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
H - MISCELLANEOUS (cont.)					
City-owned Property (2155) 431-437 Bosworth St. Crosstown Freeway' AAA Ptg. & Dec. Co.	6-27-62	9-6-62	$ 721	$ 721	General
Public Welfare Bldg. (2026) Steam Cleaning & Painting Robt. Thompson	6-29-62	12-6-62	7,800	7,800	General
150 Otis St. (2040-X) Folding Partition Price Building Specialties	7-20-62	10-16-62	706	706	General
Log Cabin Ranch (2050) Classrooms & Shops Filo Corporation	8-15-62	6-8-63	125,560	125,560	General
Potrero Hill & St. Mary's Recreation Centers (2165) Alt. Metal Sash & Glazing H. E. Rahlmann Co.	8-29-62	12-26-62	6,682	6,682	General
Aquatic Park (2174) Maritime Museum Terrazzo Sidewalk	8-29-62	2-20=63	835	835	General
Civic Auditorium (1955R-SS) Sound System A. B. Loudermilk Co.	9-5-62	9%	76,366	6,873	1960 Aud.
Academy of Science-African Hall Reroofing (2180) Bender Roofing Inc.	9-28-62	1-22-63	4,329	4,329	General

Zoological Gardens (2173) Reroofing Bear Dens Robt. F. Smith Co.	9-28-62	6-3-63	$ 1,933	$ 1,933	General
S. F. County Jail #2 (2166R) Reroofing Bender Roofing Co.	10-3-62	12-4-62	2,481	2,481	General
150 Otis Street (2186) Window Replacement & Related Work H. E. Rahlmann Co.	10-17-62	2-22-63	7,377	7,377	General
Golden Gate Park (2060) Gen. Construction of Dressing Rooms & Toilet Facilities Music Bandstand Area Leon Carlen	11-14-62	5-2-63	53,091	53,091	General
150 Otis Street (2206) Window Replacement & Related Work - 4th Floor H. E. Rahlmann Co.	12-12-62	3-27-63	1,992	1,992	General
Dept. of Electricity (2193) General Construction of Administrative, Communication & Traffic Facilities Leon Carlen	1-4-63	6-20-63	194,603	194,603	General
Kezar Pavillion (2205) Add. & Alt. to Dressing Rooms Stenmark Construction Co.	1-23-63	79%	83,954	66,324	1955 P & RC

CURRENT CONTRACT DATA 1962-1963

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1962-1963	Fund
H - MISCELLANEOUS (cont.)					
Youth Guidance Center (2214) Insect Screens for Cottages C-1, C-2 & C-3 D. H. Johnson Co.	2-13-63	6-20-63	$ 1,793	$ 1,793	General
Potrero Hill & Sunset Recreation Centers (2221) Reroofing Various Units Western Roofing Service	3-6-63	99%	8,142	7,061	General
Ocean View Recreation Center (2222) Altering Metal Sash & Glazing H. E. Rahlmann Co.	3-6-63	6-19-63	3,079	3,079	General
Steinhart Aquarium (2235) Amphibian Tanks Wm. McIntosh & Son	3-20-63	0	4,370	0	General
Steinhart Aquarium (2236) Reptile Tanks The Fink & Schindler Co.	3-20-63	0	26,450	0	General
Union Square (2212) Permanent Platform De Narde Construction Co.	4-3-63	80%	5,484	4,387	General
Southeast Sewage Plant (2262) Roof Repairs to Digester Tanks Regal Roofing Co.	5-15-63	99%	2,161	2,140	General
Academy of Sciences- North American Hall (2231) New Roof Structure & Builtup Roof. Edco Construction Co.	5-15-63	0	21,500	0	General
Total Awarded and Expended During Fiscal Year			632,888	$4,735,739	

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ANNUAL REPORT

of the

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

FISCAL YEAR ENDING JUNE 30, 1964

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ANNUAL REPORT

of the

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

FISCAL YEAR ENDING JUNE 30, 1964

JOHN F. SHELLEY______________________Mayor
SHERMAN P. DUCKEL_Chief Administrative Officer
S. MYRON TATARIAN____Director of Public Works

Material compiled by John A. Jelincich, Bureau of Engineering

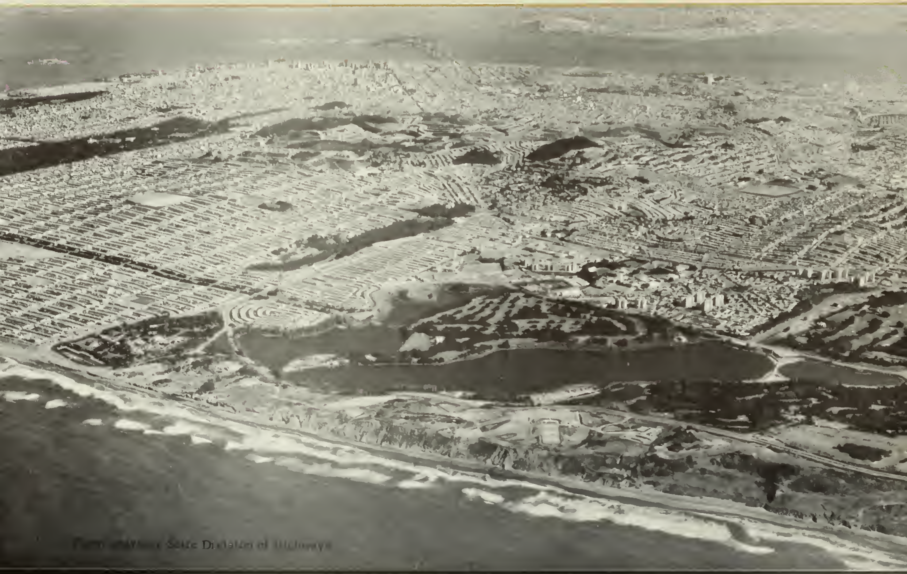

Photo California State Division of Highways

Table of Contents

DIRECTOR'S LETTER OF TRANSMITTAL 5

BUREAU OF ENGINEERING 7

BUREAU OF ARCHITECTURE 58

BUREAU OF BUILDING INSPECTION 88

MAINTENANCE AND OPERATION 109

Bureau of Sewer Repair and Sewage Treatment 112

Bureau of Street Repair 132

Bureau of Building Repair 143

Bureau of Street Cleaning and Planting 151

ADMINISTRATIVE BUREAUS 163

Bureau of Accounts 167

Central Permit Bureau 173

APPENDICES

I - Current Contract Data, Bureau of Engineering

II - Current Contract Data, Bureau of Architecture

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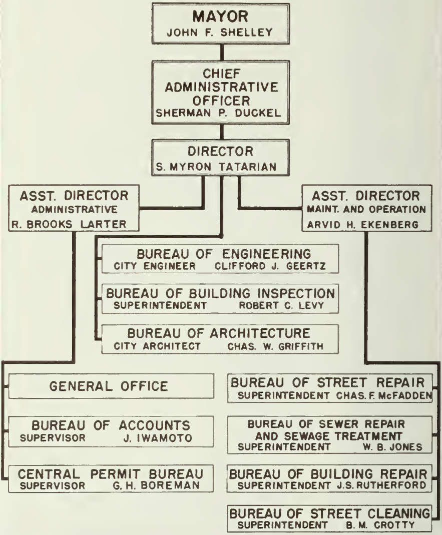
ORGANIZATION CHART

DEPARTMENT OF PUBLIC WORKS

CITY AND COUNTY OF SAN FRANCISCO
JUNE 30, 1964



MAYOR
JOHN F. SHELLEY

CHIEF ADMINISTRATIVE OFFICER
SHERMAN P. DUCKEL

DIRECTOR
S. MYRON TATARIAN

ASST. DIRECTOR
ADMINISTRATIVE
R. BROOKS LARTER

ASST. DIRECTOR
MAINT. AND OPERATION
ARVID H. EKENBERG

BUREAU OF ENGINEERING
CITY ENGINEER CLIFFORD J. GEERTZ

BUREAU OF BUILDING INSPECTION
SUPERINTENDENT ROBERT C. LEVY

BUREAU OF ARCHITECTURE
CITY ARCHITECT CHAS. W. GRIFFITH

GENERAL OFFICE

BUREAU OF ACCOUNTS
SUPERVISOR J. IWAMOTO

CENTRAL PERMIT BUREAU
SUPERVISOR G. H. BOREMAN

BUREAU OF STREET REPAIR
SUPERINTENDENT CHAS. F. McFADDEN

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT
SUPERINTENDENT W. B. JONES

BUREAU OF BUILDING REPAIR
SUPERINTENDENT J.S. RUTHERFORD

BUREAU OF STREET CLEANING
SUPERINTENDENT B. M. CROTTY

DYL

CITY AND COUNTY OF SAN FRANCISCO

DEPARTMENT OF PUBLIC WORKS

January 19, 1965

OFFICE OF THE
DIRECTOR OF PUBLIC WORKS

260 CITY HALL
SAN FRANCISCO 2
CALIFORNIA

Annual Report
1963-1964

Mr. Thomas J. Mellon
Chief Administrative Officer
City and County of San Francisco

Dear Mr. Mellon:

In compliance with the provisions of Section 20 of the Charter of the City and County of San Francisco, I submit the annual report of the Department of Public Works for the fiscal year ending June 30, 1964.

The Department budget totaled $21,059,820 from the following budgeted sources: General Fund, Special Gas Tax Street Improvement Fund, and Road Fund. The corresponding expenditures were $18,670,005. In addition, contracts awarded from Bond Funds were $10,062,238.

Authorized permanent employees numbered 1,684, which is approximately 3.7% more than in the previous year. Most of the new employees were Health Department maintenance and operations personnel whose functions were transferred to the Department of Public Works.

During the year the Department awarded 303 contracts for a total bid amount of $18,721,630. As compared to the previous fiscal year, this was an increase of 12% in the number of contracts and an increase of 82% in the value of the contracts awarded.

Major projects completed or under construction include Steinhart Aquarium, the Civic Auditorium rehabilitation, the West Wing of the M. H. de Young Museum, the Palace of Fine Arts, the new Pathology Building at San Francisco General Hospital, North Point Collecting Sewers (Sec. D-3 and B-3A), McLaren Park Roads, Evans Avenue Reconstruction (including construction of railroad bridge), and the new street lighting on Sunset Boulevard from South Drive to Lake Merced Boulevard.

There were 14,935 building permits issued for private construction work estimated to cost approximately $189 million. This represents an increase of 0.7 of 1% in number of permits and 1.7% in the value of construction.

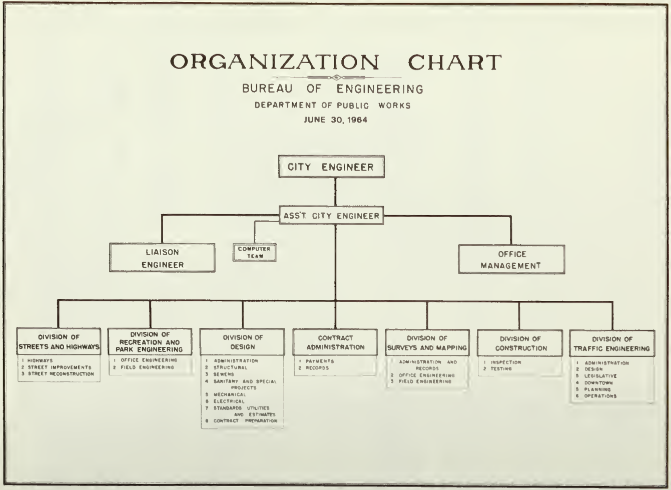
The Assistant Directors, the Bureau Heads, their staffs and personnel are commended for jobs well done.

I know you will join with us in expressing our thanks to Mr. Sherman P. Duckel, former Chief Administrative Officer, who retired from City service on September 1, 1964. It was under his jurisdiction that the work included in this report was accomplished.

Very truly yours,

Sm Tatarian

S. M. Tatarian
Director of Public Works


ORGANIZATION CHART
BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
JUNE 30, 1964
CITY ENGINEER
ASS'T. CITY ENGINEER
LIAISON ENGINEER
COMPUTER TEAM
OFFICE MANAGEMENT
DIVISION OF STREETS AND HIGHWAYS
1 HIGHWAYS
2 STREET IMPROVEMENTS
3 STREET RECONSTRUCTION
DIVISION OF RECREATION AND PARK ENGINEERING
1 OFFICE ENGINEERING
2 FIELD ENGINEERING
DIVISION OF DESIGN
1 ADMINISTRATION
2 STRUCTURAL
3 SEWERS
4 SANITARY AND SPECIAL PROJECTS
5 MECHANICAL
6 ELECTRICAL
7 STANDARDS UTILITIES AND ESTIMATES
8 CONTRACT PREPARATION
CONTRACT ADMINISTRATION
1 PAYMENTS
2 RECORDS
DIVISION OF SURVEYS AND MAPPING
1 ADMINISTRATION AND RECORDS
2 OFFICE ENGINEERING
3 FIELD ENGINEERING
DIVISION OF CONSTRUCTION
1 INSPECTION
2 TESTING
DIVISION OF TRAFFIC ENGINEERING
1 ADMINISTRATION
2 DESIGN
3 LEGISLATIVE
4 DOWNTOWN
5 PLANNING
6 OPERATIONS

BUREAU OF ENGINEERING

Clifford J. Geertz, City Engineer

GENERAL DATA

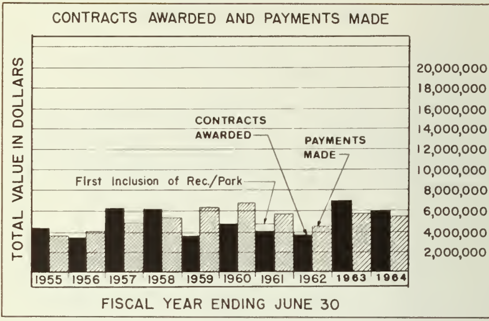
The Bureau of Engineering maintained its average annual level of production in processing and awarding 117 contracts with an aggregate value of approximately $6,024,000.00. Contract payments amounted to $5,470,000.00. The report for this period showed 271 employees of which 120 were in professional classifications, 118 in sub-professional classifications, and 33 in clerical positions.

CONTRACTS AWARDED AND PAYMENTS MADE

Table 1 shows the breakdown of contracts awarded and payments made according to the type of construction.

TABLE 1

Table	Type of Construction	Contracts Awarded No.	Contracts Awarded Aggregate Value	Amount Expended Fiscal Year 1963 - 1964
A	Major Thoroughfares	2	$ 532,940.00	$ 777,596.18
B-1	Streets - Private Contracts	19	108,560.00	323,580.32
B-2	Streets - Assessments	7	230,900.31	455,660.63
B-3	Streets - City Pay	10	394,434.04	564,368.22
C	Traffic Signals and Channelization	4	130,814.88	88,172.08
D-1	Sewers - Pipe, VCP, Conc.	6	369,948.22	370,946.52
D-2	Sewers - Conc. Monolithic	2	670,450.00	1,375,951.51
E	Recreation/Park	27	2,002,399.37	821,563.46
F	Miscellaneous	40	1,583,495.64	692,249.04
	TOTAL by Bureau of Engineering	117	$6,023,942.46	$5,470,087.96
	Engineering Plans and Specifications for Bureau of Architecture 37 Contracts			$1,209,460.00
	GRAND TOTAL			$6,679,547.96

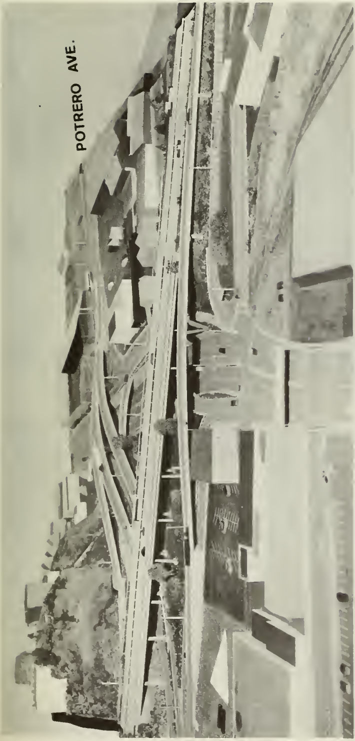


PROJECTS OF GENERAL INTEREST

ARMY STREET CIRCLE GRADE SEPARATION PROJECT

Traffic amounting to 85,000 vehicles on City streets and 150,000 vehicles on the Freeway pours through the gap between Potrero Hill and Bernal Heights every day. On the City Streets, this tremendous density of traffic results in about 70 accidents per year and severe congestion which in the peak hours reduces speeds to about five miles per hour. This project estimated to cost approximately $3,000,000 - will, by eliminating grade crossings and weaving movements, reduce the accidents by 87 per cent and eliminate congestion. It will result in estimated motorists benefits of $1,000,000 per year.

As a design aid, and to illustrate the complexity of the contemplated project, a physical model of the interchange was constructed. The work on the model was done exclusively by Bureau of Engineering personnel in the Traffic Engineering Division. Geometrics of the interchange were developed in the Division of Streets and Highways by Senior Civil Draftsman V. N. Udaloff. Construction of this particularly attractive model now on display in the City Engineer's office was accomplished by Civil Draftsmen C. Wichmann and Y.T. Futatsuki of the Division of Traffic Engineering.



Model of Army Street Circle Project

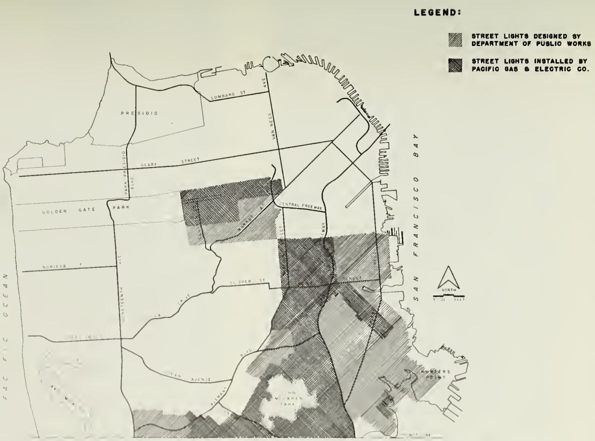
STREET LIGHTING

The past year was the most important in the history of street lighting in San Francisco. More important decisions were made and there was more progress toward better street lighting than in any other year.

In August of 1963, the Department of Public Works presented a report to the Board of Supervisors on street lighting in San Francisco. In it were recommendations for the improvement of street lighting and an analysis of the costs. It was pointed out that 82% of the City's street mileage was in districts having overhead electrical distribution where the existing street lights were owned by the power company. A rate reduction by the Pacific Gas & Electric Company prompted by the analysis of the Department of Public Works made it economical to improve the street lighting in such districts with no capital investment by the City. It was recommended that at least 15,000 new street lights be installed by the Pacific Gas and Electric Company. The report further recommended that there be a bond issue presented to the electorate for improvement of the street lighting in the districts having underground electrical distribution where the existing street lights are owned by the City and the Pacific Gas and Electric Company. It was shown that there was a tremendous economic advantage in City ownership of the street lighting in the underground districts.

The Board of Supervisors endorsed the proposals listed in the report and directed the Department of Public Works to proceed. Under the Public Works Code, the responsibility for street lighting rests with the City's Public Utilities Commission. However, due to curtailment of their street lighting activity in recent years, they could not undertake the program. Consequently, the Board of Supervisors passed a supplemental appropriation of $10,000 to the Department of Public Works. It was agreed that for this sum, the Department of Public Works could prepare plans for about 3,000 new street lights in the overhead districts. The Department of Public Works determined starting points for the work based on Police Reports, traffic accident reports and citizens' complaints. In four months, plans for the location of 6,178 street lights rather than the estimated 3,000 were sent to the Public Utilities Commission so that they could issue the necessary orders to the Pacific Gas and Electric Company. The first new street light was installed in December of 1963. By June 30, 1964, about 3,200 of these had been installed as shown in Fig. 1.

Concurrently with this work, the Department of Public Works prepared the necessary legislation for a street lighting bond issue of



Progress in Improvement of Street Lighting in Overhead Districts - June 30, 1964

$7,000,000 for improvement of street lighting in the underground districts. The electorate approved the issue in the June 2, 1964 election with almost 85% of the votes cast in favor of the Proposition, which will provide funds for almost 7,000 new street lights.

As a result of the combined street lighting improvement program, about 22,000 new street lights will be installed in the next few years. This represents about 76% of the street lights in the City.

In addition to providing illumination in accordance with recommendations of the Illuminating Engineering Society, the new street lights have economic advantages to the taxpayer. In the overhead districts, each new unit will provide about twice the illumination on the street as its 40-year old, obsolete predecessor. Yet, the unit cost per night remains the same. In the underground districts, the new street lights will cost about $60,000 per year less for operation and maintenance than their inadequate ancestors and provide from two to ten times as much light. As the work proceeds, efforts will be made to measure the additional advantages of crime and accident reduction.

ORANGUTAN GROTTO
SAN FRANCISCO ZOO

The Orangutans and possibly a few Chimpanzees in the San Francisco Zoo have moved into a new castle.

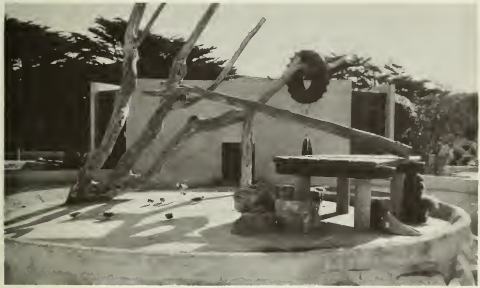
Well, it isn't really a castle but it did cost $123,000, and it does have a moat. In fact, it has three moats surrounding three islands and it does have a block-like construction not unlike that usually associated with medieval castles.

The Orangutans must consider their new home more of a palace than a castle when compared to their former living quarters. Their old home consisted of nothing more than a wire mesh box with a cramped house for shelter from rain and cold. They now lounge around in the wide open spaces on their new islands without bars. They retire in the evenings to a spacious bedroom-dining room area of which no other San Francisco primates can boast except possibly the gorillas who moved into their new quarters last year.

Actually the official name for this new zoo addition is the Orangutan Grotto and it was constructed from funds made available by the San Francisco Zoo Society and the Recreation and Park Department budget.

The Architects were Corlett and Spackman.

The design, like the Gorilla Grotto, departs from the time-honored method of displaying primates behind bars in the San Francisco Zoo. The islands with their moats are in a clover leaf pattern which allows close unobstructed viewing by the public and provides ample space for increase in the primate population.



General View of Orangutan Grotto

Grotto Tenants and Their New Home

STABILIZATION OF CLIFF FACE AT SUTRO HEIGHTS PARK

Over one million persons annually walk, drive, or cycle along the Great Highway which in one portion snakes between the Ocean Beach and the Cliff House on one side and the precipitous cliff of Sutro Heights Park on the other.

The cliff, while providing an impressive natural backdrop to the sea, surf, and teeming tourist activity, also contributes a potential hazard in the form of loose rock spalling from the face and falling onto the traffic below.

The Recreation and Park Department budget provided the funds for correcting the condition but a standard gunite surface covering for loose rock stabilization was not the complete answer in this case.

Since the cliff is directly exposed to one of the most popular areas in San Francisco it was important to avoid the bleak, artificial look of a gunited slope. However, it was also necessary to use gunite as the basic material for practical as well as economical considerations.

First, the gunite was tinted in varying shades to avoid the dull gray appearance that is normally associated with portland cement products.

Sutro Heights Park - Stabilization of Cliff Face - View from top of cliff

Secondly, the reinforcing mesh was formed in the shape of ridges, valleys, and outcroppings so as to simulate natural conditions as much as possible.

Further, basins were also constructed at random for the installation of plant material with the hope of eventually providing an overhanging garden effect.

The practical features required to make the system work included cutoff walls to prevent intrusion behind the gunite cover and weep holes to eliminate accumulated water.

This was the first time that stabilization of the Sutro Heights Cliff was performed by contract, bid on a competitive basis. Thirty years ago a substantial portion of the Cliff face was consolidated with plastered shapes and with stacked concrete rubble under the old Works Progress Administration and by former Park employees.

If the favorable comments of the public and of the sidewalk superintendents can be relied upon, the end result, esthetically, did not suffer in the least by performing the work under contract on a competitive bid basis.

Sutro Heights Park - Stabilization of Cliff Face - Guniting being applied

NEIGHBORHOOD PARKING PROGRAM

Three of the 22 parking lots in the Neighborhood Parking Program have been completed, Eureka Valley Public Parking Facility, Geary Boulevard Public Parking Facility, and Outer Irving Public Parking Facility. They contain sixty-eight parking stalls, with a combined project cost of $286,620.

In all, seventeen sites, including two garages, have been approved by the Board of Supervisors, and these will provide 611 off-street parking stalls for our neighborhood districts.

	Eureka Valley	Geary Blvd.	Outer Irving
Capacity	21	22	25
Land	$62,430	$83,000	$91,730
Construction & Engineering	$19,720	$14,340	$15,400
Project	$82,150	$97,340	$107,130

Eureka Valley Public Parking Facility
Castro St. between 17th and 18th Sts.

Design of the lots was accomplished jointly by the Department of Public Works and the Department of City Planning for the Parking Authority of the City and County of San Francisco, sponsor of the Neighborhood Parking Program.

Eureka Valley Public Parking Facility

ADA COURT

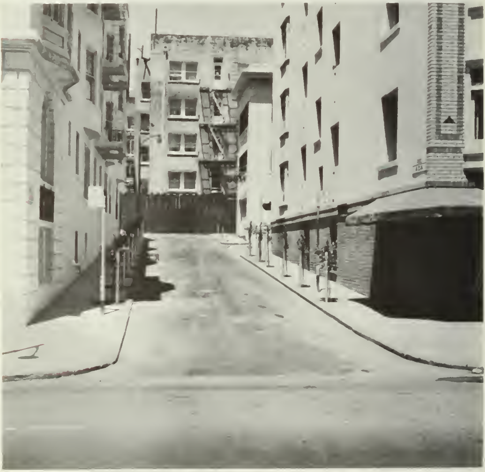
As the fiscal year 1963-64 drew near a close, one paving crew of the Bureau of Street Repair which normally concentrated on intersection resurfacing and miscellaneous street repairs became available for resurfacing work in street areas where use of large spreader equipment would not be practical.

Several narrow streets were resurfaced as a result of the availability of the crew, among them Ada Court. Prior to resurfacing work in the roadway, street inspectors served notices to property owners to make necessary repairs to fronting sidewalks. On Ada Court 94 per cent of the total sidewalk frontages were completely replaced, illegal driveways removed and properly constructed, and sidewalk cross-warps eliminated.

At one location, sidewalk work revealed a void under the paving which channeled water from cracks in the sidewalk to the basement floor of an adjacent building resulting in flooding for many years. Proper filling of the void and placing of new sidewalk eliminated this nuisance, to the expressed pleasure of the property owner.

The spirit of improvement in this narrow downtown street caught the attention of the abutting owners, who, following recommendations and advice of the Street Tree Planting Division, embarked on a sidewalk tree planting program with all owners participating.

All work, including resurfacing of the street, resetting of granite curb, sidewalk replacement and tree planting, was accomplished within 30 days of the serving of the sidewalk repair notices.



Ada Court - after resurfacing, sidewalk replacement and tree planting

JUDSON AVENUE WIDENING

The Judson Avenue Project consists of widening between Phelan Avenue and Foerster Street from 50' to 80' between property lines, improving the alignment between Foerster Street and Edna Street by reducing the sidewalk width from 22.5' to 12' and 15'. The first phase of this project, widening 30' on the south side, was completed and the balance of the work is scheduled for construction in the first part of 1965.

Judson Avenue with its curb to curb width of 27.5' or less was inadequate for the traffic volume generated by the San Francisco City College, a growing educational complex fronting on the south side of the avenue. With the completion of the Paulding Street Undercrossing by the State Division of Highways joining Judson Avenue with San Jose Avenue, additional vehicles were channeled to this artery, aggrevating the traffic condition further. To alleviate the traffic congestion on the avenue and to facilitate vehicular circulation on the streets bordering the San Francisco City College, the Board of Education, on the recommendation of the Director, granted to the

Judson Avenue West of Foerster Street Before Widening

Department of Public Works permission to widen the avenue on school property.

A contract for the first phase of the project was awarded to the Lowrie Paving Co., Inc. on Jan. 22, 1964. Construction of the work was completed on May 8, 1964.

Judson Avenue West from Foerster Street After Widening

DIVISION OF STREETS & HIGHWAYS

WORK CORDINATED WITH BUREAU OF BUILDING INSPECTION

Work of the Permits and Inspection Section has increased tremendously in the past two years in the granting of street and sidewalk occupancy permits required to meet the needs of builders of new private structures. While building permits have increased from 969 in 1960-1961 to 1,010 in 1963-1964, or 4.23% - occupancy permits have increased from 923 to 1,353, or 46.70%.

To meet the new demand, this particular activity was increased from one to two Bureau of Engineering inspectors, who are on detached service at the Bureau of Building Inspection. Office hours 8-10 a.m. and 4-6 p.m. were established for the convenience of the builders. Of particular aid in the work of inspectors was a mimeographed instruction booklet attached to every set of building plans. Originally designed as a two-page information sheet, it has now been expanded to nine pages containing excerpts from the Public Works Code, Police Code, Standard Specifications and general street use regulations.

Where pedestrian or vehicular traffic problems are anticipated, the traffic engineers, police, and other City departments are brought together with the builders and special layout of street and sidewalk space is agreed upon.

This new procedure not only has speeded up the processing of permits for builders, but has reduced the number of builders who try to avoid obtaining a permit - thus preventing the occurrence of unreasonable public inconvenience.

This unit also checks a much larger percentage of alteration permits such as, revisions of new buildings (when affected), demolition permits, and does a variety of routine work. Additional checks for review of plans by other interested units not normally aware of building activities are:

1) Freeway study areas
2) Rapid transit routes
3) Parking meter areas
4) Towaway streets
5) Street widenings and improvements
6) Restricted ingress and egress
7) Driveways in restricted areas

WORK CORDINATED WITH BUREAU OF BUILDING INSPECTION (cont'd)

8) Other Bureaus and Departments
   - a) Street Repair (curbs)
   - b) S.F.W.D. (mains or valves)
   - c) Sewer Section (easements)
   - d) Street Improvement Section (unimproved streets)
   - e) Street Cleaning (trees)

REPORT OF NOTICES, PERMITS AND INVESTIGATIONS

ITEM	TOTALS
Number of Sidewalk frontages inspected	28,257
Curb lowering permits and inspections	3,120
Ownership addresses researched	4,152
Notices to construct or repair sidewalks	12,373
Notices to remove obstructions, oil, etc.	1,703
Notices to replace side sewer covers	1,456
Street Space permits and inspections	4,068
Sidewalk tank excavation permits and inspections	392
House moving permits and inspections	74
Defects in pavements reported (written)	2,121
Damaged signs reported	346
Excavation permits approved	14,244
Excavation repaving inspected	3,823
Posting Notices of Improvements	337
State Encroachment Permits obtained	35
Asphalt samples for analysis	43
Claims investigations and inspections	480
Special investigations and permits (Blasting, etc.)	4,068
Correspondence answered	591
Personal and telephone calls of complaints or for information	16,723
Citations	7
Building Permits	2,077
Dump Inspections	726
Court Time in hours	373
Total Inspections	101,216

STREET RESURFACING BY PUBLIC CONTRACT

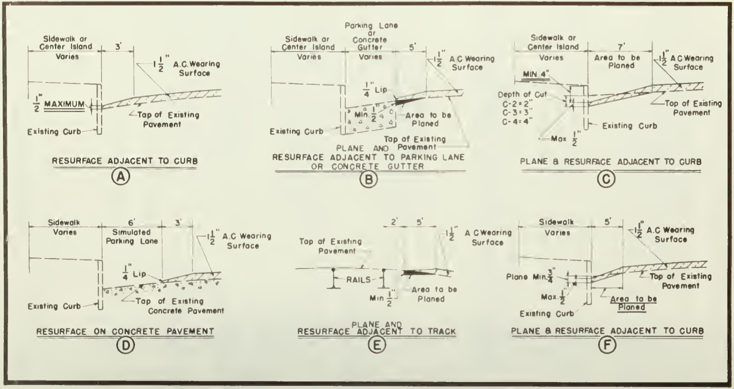
The Bureau of Street Repair maintains all accepted streets, but is limited by the City Charter to $2,000.00 expenditure on any one project or location. Large areas which would exceed the $2,000 limit are referred to the Bureau of Engineering to do under a public contract.

Street pavement surfaces with heavy traffic or in poor condition are resurfaced with 1-1/2 inches of asphalt concrete wearing surface. Street pavements that have unraveled, resulting in a rough texture, receive 3/4 of an inch of asphalt concrete wearing surface.

Defective curbs are repaired prior to resurfacing. Driveways left high by heater planing are rebuilt. The first three feet of sidewalk in back of curb is removed and replaced to facilitate the curb work.

STREET RESURFACING
PUBLIC CONTRACT - UNIT COSTS

Asphalt Concrete Wearing Surface	18,972 Ton	$7.83/Ton
Area Resurfaced	2,244,000 Sq. Ft.	$0.066/Sq. Ft.
Heater Planing (All Types)	44,522 Lin. Ft.	$0.374/Lin. Ft.
Curb Repair (Includes Sidewalk)	1,474 Lin. Ft.	$3.63/Lin. Ft.
63-64 Resurfacing (Includes Entire Cost)	7.53 Miles	$23,546./Mile

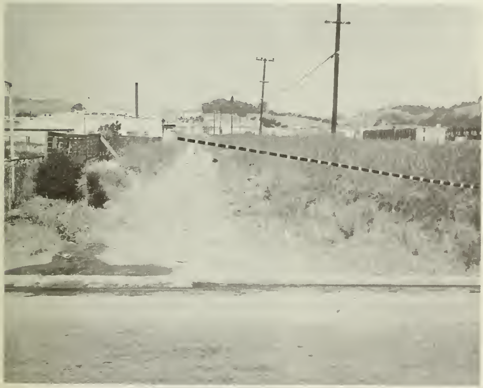

Sidewalk or Center Island
Varies
3'
$1\frac{1}{2}$" A.C. Wearing Surface
$\frac{1}{2}$" MAXIMUM
Top of Existing Pavement
Existing Curb
RESURFACE ADJACENT TO CURB
Ⓐ
Parking Lane or Concrete Gutter
Sidewalk or Center Island
Varies
Varies
5'
$1\frac{1}{2}$" A.C Wearing Surface
$\frac{1}{4}$" Lip
Min. $\frac{1}{2}$"
Area to be Planed
Existing Curb
Top of Existing Pavement
PLANE AND RESURFACE ADJACENT TO PARKING LANE OR CONCRETE GUTTER
Ⓑ
Sidewalk or Center Island
Varies
7'
Area to be Planed
$1\frac{1}{2}$" A.C Wearing Surface
MIN 4"
Depth of Cut
C-2 = 2"
C-3 = 3"
C-4 = 4"
Top of Existing Pavement
Existing Curb
Max $\frac{1}{2}$"
PLANE & RESURFACE ADJACENT TO CURB
Ⓒ
Sidewalk
Varies
6'
Simulated Parking Lane
3'
$1\frac{1}{2}$" A.C Wearing Surface
$\frac{1}{4}$" Lip
Existing Curb
Top of Existing Concrete Pavement
RESURFACE ON CONCRETE PAVEMENT
Ⓓ
2'
5'
$1\frac{1}{2}$" A.C Wearing Surface
Top of Existing Pavement
RAILS
Min $\frac{1}{2}$"
Area to be Planed
PLANE AND RESURFACE ADJACENT TO TRACK
Ⓔ
Sidewalk
Varies
5'
$1\frac{1}{2}$" A.C Wearing Surface
Plane Min. $\frac{3}{4}$"
Top of Existing Pavement
Max. $\frac{1}{2}$"
Area to be Planed
Existing Curb
PLANE & RESURFACE ADJACENT TO CURB
Ⓕ

STANDARD RESURFACING CROSS SECTIONS

VELASCO AVENUE

The improvement of Velasco Avenue between Calgary and Schwerin Streets under assessment proceedings required the extention of the assessment district beyond the County Line into San Mateo County.

Plans, specifications, and proposed legislation ordering the improvement of Velasco Avenue were submitted to the San Mateo County Engineer for approval. Subsequently the Board of Supervisors of San Mateo County adopted a resolution granting the City and County of San Francisco extra-territorial jurisdiction to order the improvement of Velasco Avenue within San Mateo County. Thereafter, the Director of Public Works of San Francisco initiated street improvement proceedings for the entire project under the Public Works Code of the City and County of San Francisco.



Velasco Avenue Before Construction
Looking West from Schwerin Street toward San Francisco
Dashed line is San Francisco - San Mateo County Boundary

Velasco Avenue After Construction

DIVISION OF RECREATION AND PARK ENGINEERING

GOLDEN GATE PARK CONSERVATORY SARAN HOUSE

The Conservatory in Golden Gate Park is known to millions of people throughout the world and is a landmark that never fails to turn the head of every passerby; pedestrian, equestrian, cyclist and motorist alike.

What is known to a very few, however, is a rather unimpressive collection of buildings no more than a few feet from the Conservatory but completely hidden from public view. These structures, wedged between a steep wooded slope on the north and the Conservatory property on the south, serve a very useful purpose in spite of their anonymity. They provide for the propagation of plant material for use in the public area. One such building was an aging structure rightfully called a lathhouse. Its wood framework and lath superstructure being in an advance state of deterioration, required complete replacement and was a project included in the 1963-64 budget of the Recreation and Park Department.

The steep sloping site for the new structure crowded by trees and other buildings, necessitated a design that was unique for a so-called "lathhouse". The difficult site conditions, you might say, contributed to the construction of an amphitheatre for plants.

The substructure consists of a series of curvilinear, terraced concrete block walls which serve the double duty of retaining the slope and providing the enclosing walls for the soil beds. It is this feature that imparts the stadium-like effect to the building.

The superstructure consisted of conventional contemporary material for a "lathhouse" including the use of saran screen for sunlight filtering and ventilation rather than wood lath which is the historical material. Hence, in spite of the traditional label, "lathhouse", for the structure, a more technically correct name would be "Saran House", or in this particular case, why not, "Greek Theatre for Plants".

Construction costs amounted to $18,000.

"Greek Theatre for Plants"

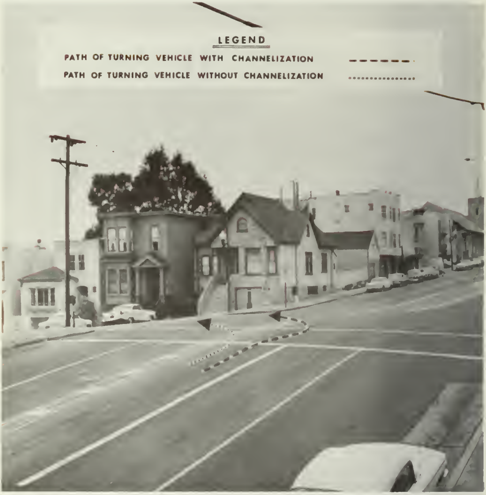
Saran House, Golden Gate Park Conservatory

DIVISION OF TRAFFIC ENGINEERING

BAKER AND TURK STREET CHANNELIZATION

Checks of the accident records indicated that the intersection of Baker and Turk Streets had a very high incidence of left-turn accidents involving vehicles turning left off Turk Street. Field studies showed that because the intersection was at the crest of the hill, sight distance was restricted, and left-turning vehicles turning too soon could not be seen by the straight-through motorists. The pavement bar channelization shown on the photograph forces motorists to make their left turns well within the intersection and in full sight of straight-through vehicles. The treatment has resulted in a 100 per cent decrease in left-turn accidents since it was instituted.

Sight Distance Limitation for Westbound Turk St. Traffic


LEGEND
PATH OF TURNING VEHICLE WITH CHANNELIZATION
PATH OF TURNING VEHICLE WITHOUT CHANNELIZATION

Baker and Turk Streets Channelization

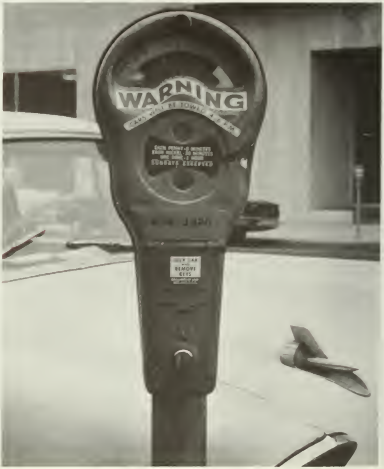
GOLDEN GATE PARK DIRECTIONAL SIGNS

At the request of the Park Department, the Department of Public Works took over maintenance of directional and traffic signs on Public Works maintained roads in Golden Gate Park. As a first step, all traffic signs on Main Drive were replaced (some signs were over 20 years old) with baked enamel on aluminum signs. An attractive white on brown design was used rather than the standard black on white, because it was felt that these signs would fit better into the park background and be less obtrusive. It is hoped to replace the rest of the signs this coming fiscal year.

New Type Golden Gate Park Traffic Sign

TOW-AWAY DECALS ON PARKING METERS

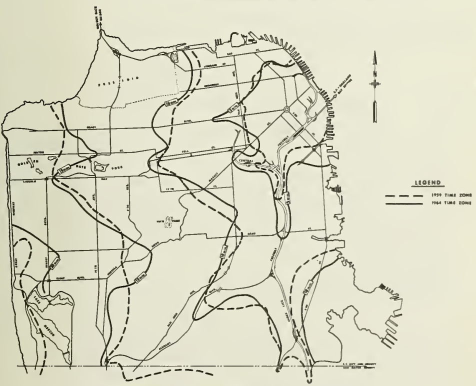
A serious problem both from the public relations and enforcement standpoint are those vehicles left standing in parking meter zones during tow-away periods. Discussions with enforcement personnel indicated that many of these people were unaware of the regulations dispite the large tow-away signs spaced every 200 feet on the street. To combat the problem, the Division made a trial installation of large decals reading WARNING - AUTOS WILL BE TOWED 4 TO 6 PM on parking meters in a test area on Mission and McAllister Streets. The results have been very gratifying with a 37 per cent reduction in tow-aways in a 4-month comparable before—and—after period. Because of this success, the decal installation will be extended to all parking meters in tow-away zones.



Tow Away Decals

OFF-PEAK TRAVEL TIME MAP

This year, one of the periodically assembled off-peak travel time maps was printed. It showed that, in the period since 1959, travel times from the Third and Market Streets focal point have remained relatively unchanged. This is significant, considering the estimated 15 to 20 per cent increase in traffic volume during this period.



CHANGES IN OFF PEAK HOUR TRAFFIC CONDITIONS

1959 TO 1964

TRAFFIC ENGINEERING DIVISION

		No. of Investigations Made
Written Reports to San Francisco Parking Authority		78
Advisory Appearances and Conferences with San Francisco Parking Authority		45
One-for-one Parking Checks for Department of City Planning (Formal)	112 (3641 stalls)	
(Informal)	25 est. (400 stalls)	
Formal STOP & YIELD Sign Investigations	150	
Formal Parking Control Investigations	150	
Formal Traffic Signal Investigations	126	
Other Formal Investigations	522	

TRAFFIC AND STREET NAME SIGNS

TRAFFIC SIGNS	Completed 1963-1964
Parking Signs Installed	235
Parking Signs Repaired or Changed	408
Parking Signs Removed	173
Other Signs Installed	417
Other Signs Repaired or Changed	712
Other Signs Removed	104
Stop Signs Installed	86
Stop Signs Repaired or Changed	237
Stop Signs Removed	23
Total	2,395

Approximate Cost 1963-1964	$45,000 estimated
Total Number in Place June 30, 1964	29,000 estimated

STREET NAME SIGNS	
Street Signs Repaired or Changed	1,038
Street Signs Installed	53
Total	1,091

Approximate Cost	$24,000 estimated
Total Number in Place June 30, 1964	7,500 estimated

PAVEMENT PAINTING

	Completed
Standard Striping, miles	658.0
12-inch Stripes, miles	104.2
Pavement Words (Units) (Cost included in other items)	68.91
Bus Zones (Units)	127.01
Parking Stalls (Units - all types)	77.31
New School Intersections	12
Total School Intersections in Place June 30, 1964	643
Pounds of Reflective Beads Used	35,571
9" Stripes - miles	96.9

TRAFFIC LEGISLATION

	Completed 1963-1964	Deleted 1963-1964	Number In Place 6-30-64
Stop Intersections	45	3	1725
Yield Intersections	0	0	25
Through Streets, Miles	0	0	96.1
One-Way Streets, Miles	0.2	0.2	74.3
Speed Zones (other than 25)	58.1	1.1	59.2
Turn Restrictions (24 hours)	0	0	----
Turn Restrictions (Peak hours)	2	0	----
Meter: Block Faces	17	0	1699
Towaway: Block Faces	709	8	717
Time Limit: Block Faces	37	0	
Angle Parking: Block Faces	8	0	
Other Turn Controls	10		
No Parking Any Time: Block Faces	24	2	
Items discussed at ISCOTT*	622		
Items having Department Public Hearing	59		
Items to Board of Supervisors for Action	104		

* Interdepartmental Staff Committee on Traffic and Transportation

PARKING METERS

	Completed 1963-1964
New or Amended Zones	0
New Installations	0
Removals	143
Installations	193
Relocations	35
Temporary Removals	86

Approximate Cost 1963-1964	$6,800.00
Total Number in Place June 30, 1964	12,300

The above table does not include the normal maintenance of parking meters performed by the Department of Electricity.

TRAFFIC SIGNALS AND CHANNELIZATION

	Completed 1963-1964	Number In Place 6-30-64
SIGNALIZED INGERSECTIONS		
3-Light Installations	0	694
Equipped with Pedestrian Signals	0	184
Actuated Signals Added	0	167
CHANNELIZED INTERSECTIONS		
Concrete Islands	3	227
Raised Pavement Bars	8	43
Total	11	270
DIVIDED ROADWAYS		
Concrete Center Islands, Miles	2.05	56.85

DIVISION OF DESIGN

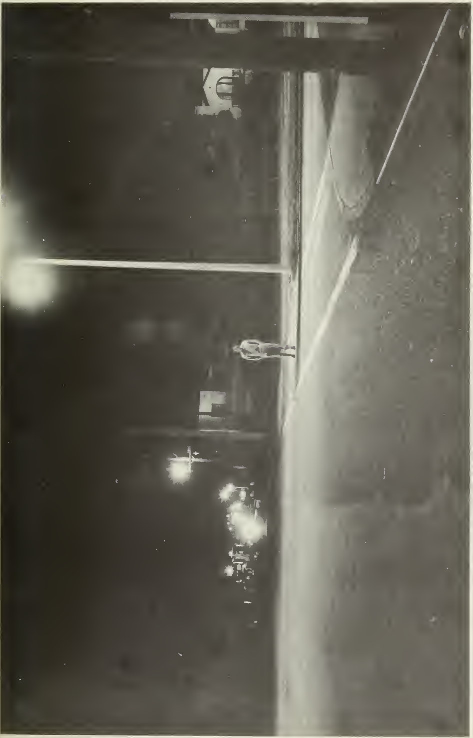
SUNSET BOULEVARD STREET LIGHTING

The 32-year old lighting system on Sunset Boulevard was finally replaced. It consisted of 6000 lumen post top units spaced about 195 feet apart. The new system has poles spaced 150 feet apart with 2-20,000 lumen lamps each. The improvement in lighting is illustrated in Figures 2 and 3. The old 6,000 lumen units cost about $42.00 per year each for maintenance and operation. Each new twin unit which provides over fifteen times as much light on the pavement as before, costs about $68.00 per year. The taxpayer gets fifteen times the light for a little more than one and one-half times as much money.

Sunset Boulevard
Old Style
Light Standard

Sunset Boulevard
New Style
Light Standard

Sunset Boulevard - Before



Sunset Boulevard - After

PERFORMANCE WARRANTY

As part of an Additions and Betterments Program to improve the various sewage treatment plants, several contracts were let during the fiscal year which included new patented processes and new uses of recently developed materials.

Continuous Gas Recirculation Systems were included in contracts for the Richmond-Sunset and Southeast Sewage Treatment Plants. The installation of Sludge Density Control Systems and Fiberglass Launders were included as parts of an alteration contract for the Southeast Sewage Treatment Plant.

Because of the risk of using a relatively new process system or introducing a new applied use of plastic, or other material in lieu of metal, it is necessary to have some assurance of its performance.

Ideally, the procedure is to select a suitable process, design all necessary facilities, and conduct certain performance tests prior to constructing the finished system. However, performance test facilities have not as yet been considered feasible in San Francisco as in the larger sewage districts such as the City of Los Angeles, the County of Los Angeles, Chicago and East Bay MUD. The lack of such a testing system has been partically overcome by the use of the Performance Warranty contract provision which was utilized in the aforementioned contracts. Under the terms of these Warranties, performance must be demonstrated in a period following the completion of the project, or a portion of the cost must be returned to the City without reservations.

Contractors, manufacturers and patent holders, confronted with these conditions, have jointly participated in efforts toward producing the best results possible. Recently, a costly correction was avoided when a manufacture detected an improper design feature.

The use of the Performance Warranty provision has coordinated the efforts of the specialized design groups, the construction forces, and the operating personnel as the project progresses through their respective jurisdictions.

The advantage of the Performance Warranty has been verified by operating Departments by their request for increased usage in future contracts.

OFFICES OF THE BOARD OF SUPERVISORS: AIR CONDITIONING

In 1960, the Supervisors' offices on the 2nd Floor of City Call were remodeled to permit more efficient use of available space. The area was rearranged to provide individual offices for the Supervisors and a central clerk work area. A new acoustical suspended ceiling, new lighting plan and new heating and ventilation system were installed. The added occupancy and lighting, however, created excessive heat which created a need for air conditioning in order to provide a comfortable working temperature. In 1963, therefore, the ventilation system was converted to full air conditioning by the addition of a refrigeration unit and cooling coils, which were installed on the roof of the City Hall.

This project illustrates a method of utilizing existing City office space more efficiently while still maintaining proper environmental working conditions.

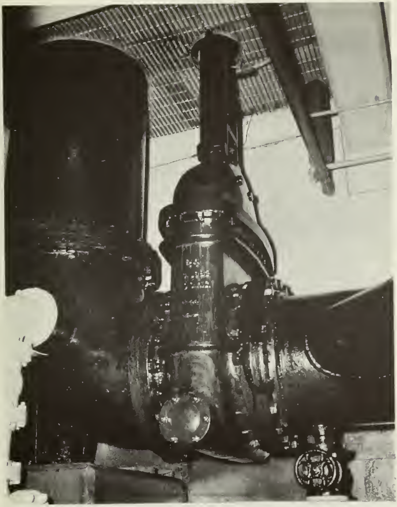
Air Conditioned Offices of the Board of Supervisors

Placing Air Conditioning Unit on Roof of City Hall

MARINA SEWAGE PUMPING STATION: REPLACEMENT OF VALVES AND VALVE CONTROL SYSTEMS

One of the top priority projects of the 1960 Sewer Bond Issue was the replacement of valves and valve controls in the Marina Sewage Pumping Station. The Station, which pumps from the City's largest drainage area, is situated underneath the Marina Green in close proximity to the City's picturesque Yacht Harbor.

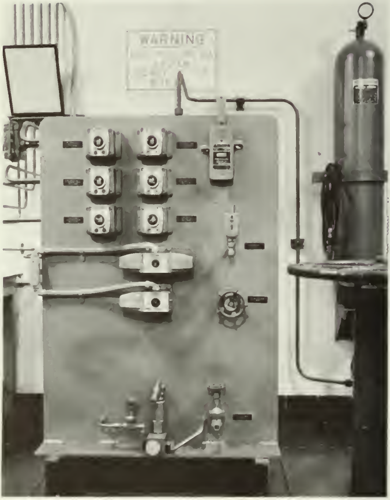
Maintenance and repair of the main influent and effluent valves was difficult since shutting down the Station was impossible without causing the area to be contaminated. After thirty years of service the valves were so badly deteriorated that they would no longer function properly. In addition the controls for operating the valves, consisting of a mechanical float mechanism combined with a water



24-inch Effluent Gate Valve

hydraulic system, were a continual maintenance problem because of the highly corrosive atmosphere in the area where the equipment was located.

The entire control system was redesigned utilizing high pressure oil to actuate hydraulic cylinders combined with a Bubbltrol Electro-Pneumatic Sensing Unit. The Bubbltrol unit employs a tube descending into the liquid and emitting air bubbles out from the bottom to keep the tube purged. Water level changes vary back pressure and trigger pressure controls which in turn actuate the high pressure oil system to position the valve as required.



Hydraulic Power Unit

Additional features incorporated in the control system include provision for throttling the influent gate during storm flows and closing all valves and pumps to protect the Station from flooding in the event of a leak in the Pump Room piping or a high sump level. Since a valve control system of this type has proven to be reliable and virtually maintenance-free, work is in progress to replace the control system in another sewage pumping station to utilize the features of the Marina plant.

On June 2, 1964, the voters of San Francisco gave the $15,623,000 sewer bonds one of the most resounding victories in San Francisco history, an 80% "yes" vote.

This is a carefully planned program of urgently needed replacements, enlargements and extensions to our sewers together with necessary improvements to our sewage treatment plants and related collecting system.

This Bond Issue is in effect a continuation of the program set up under the 1960 Bond Issue; namely, a five (5) year program of improvements to correct the flooding and undermining of streets and damage to private property occasioned by old and inadequate sewers in need of replacement. In addition, these funds will provide financing for needed outfall extensions, the enlargement of existing sewers to accommodate new industrial development, and the construction of sewers to serve new subdivisions and redevelopment projects.

This Bond Issue will also enable the City to improve its sewage treatment facilities so as to meet the requirements of the Regional Water Pollution Control Board.

The result will be to improve the quality of our shoreline waters, making them hygienically safer for water contact sports.

The City will be able to maintain and improve our high standard of sewer service and public health.

The Bond Issue can be grouped into five (5) functional categories as follows:

(1) Sewer Replacements made necessary because of abrasion, ground settlement causing gradual structural failure, chemical attack and old age, will take six percent (6%) of of the Bond Issue. A recently developed aid in detecting failures is the use of cameras to inspect sewers too small to enter.

(2) Sewer Enlargements needed to correct inadequacies in capacity resulting from more intensive land use and in addition, present standards of service are considerably higher than those used at the turn of the century - 48% of the Bond Issue will go into this category.

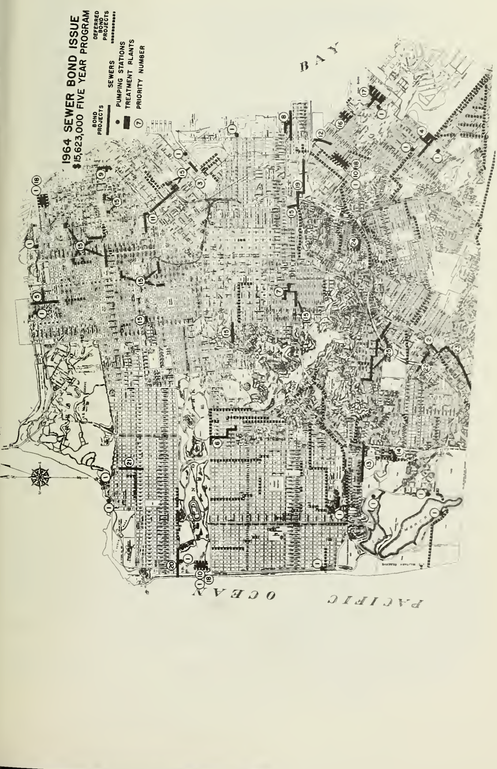
(3) Sewer Extensions - 16% of the Bond Issue will go toward newly developing areas particularly in our industrial and

tideland areas in the east and southeast part of the City.

(4) Sewage Collection System - 7% of the Bond Issue will go for diversion of raw sanitary sewage from outfalls in sewage treatment plants.

(5) Sewage Treatment Plants and Pump Stations - This final category will take 23% of the Bond Issue. Our three (3) treatment plants and sixteen (16) pump stations represent a large investment in complicated process equipment which operates under severe conditions of wear and corrosion resulting in a constant problem of replacement. Requirements of the Regional Water Pollution Control Board (a State agency) are constantly being reviewed and require improvements in plants in order to reduce pollution of receiving water - the Bay and Ocean Beach.

The sewer system and sewage treatment plants represent a capital investment of approximately 550 million dollars. In this bond issue the City is planning to expend approximately 3 million dollars a year. This represents only little more than ½% of the capital investment but still is sufficient to finance a program of replacing and improving an extremely vital service.


1964 SEWER BOND ISSUE
$15,623,000 FIVE YEAR PROGRAM
BOND PROJECTS
DEFERRED BOND PROJECTS
SEWERS
PUMPING STATIONS
TREATMENT PLANTS
PRIORITY NUMBER
BAY
PACIFIC OCEAN
GOLDEN GA.

DIVISION OF SURVEYS & MAPPING

SUBDIVISIONS AND STREET CHANGES

TABLE 1-A

SUBDIVISION MAPS

Development of land in San Francisco, because very few large areas in the county remain unimproved, is shifting to condominium subdivisions and small tracts, the latter often by Record of Survey maps. Maps processed relating to subdivisions follow:

Tentative Subdivision Maps Examined and Approved
  Red Rock Hill Unit Two Condominium Subdivision
  Dolores Heights Plaza Subdivision

Final Subdivision Maps Examined, Approved and Recorded:
  Diamond Heights Unit Three
  Mount Sutro Woods Subdivision No. 1
  Red Rock Hill Unit One Condominium Subdivision
  The Nob Hill Condominium Subdivision

Record of Survey Maps Examined and Recorded:
  Portion of Assessors Block 2798
  Forest Hill Heights

STREET DEDICATION MAPS APPROVED AND RECORDED

Widening of a portion of O'Farrell Street from Broderick Street to Divisidero Street
Opening of Cleary Court between Laguna Street and Geary Boulevard
Extension of Day Street westerly of Castro Street
Widening of a portion of Geary Boulevard at Webster Street
Openings of streets in Diamond Heights Redevelopment Area B-1
Opening of Enterprise Street easterly of Folsom Street
Extension of Crestmont Drive northerly from Oakhurst Lane
Widening of Portola Drive from West Portal Avenue to Sydney Way
Widening of Market Street from Portola Drive to Eighteenth Street
Widening of a portion of Gateview Court in Forst Hill Heights
Widening of a portion of Mendosa Avenue in Forest Hill Heights
Widening and extension of thirteenth Street from Mission Street to Eleventh Street at Bryant Street

STREET VACATIONS APPROVED

Sawyer Street - Arleta Avenue to Raymond Avenue
Petrarch Place - Bush Street and Pine Street
Merrimac Street - East of Third Street
Gonzalez Drive - At Crespi Drive
Homestead Street - North of Clipper Street
Campbell Avenue - Goettingen Street to Somerset Street
Sixteenth Street - South of Roosevelt Way
Barstow Street - Northeasterly of Sixteenth Street
Daggett Street - Southwesterly of Sixth Street
Hubbell Street - " " " "
Irwin Street - " " " "
Hooper Street - " " " "
Hoffman Street - North of Clipper Street
Boaz Court - Easterly of Lulu Alley
Cresta Vista Drive - Easterly of Lulu Alley
Bella Vista Way - Northerly of Melrose Avenue
Josiah Avenue - Lakeview to Ridge Lane
Tulare Street - Illinois Street to Waterfront Street
Marin Street - Georgia Street to Waterfront Street
Army Street - Maryland Street to Waterfront Street
Twenty-sixth Street - Massachusetts Street to Waterfront Street
Waterfront Street - Tulare Street to Twenty-fifth Street
Ohio Street - Tulare Street to Waterfront Street
Oklahoma Street - " " " " "
New York Street - " " " " "
Massachusetts Street - Tulare Street to Twenty-sixth Street
Delaware Street - Tulare Street to Marin Street
Maryland Street - " " " Army "
Louisiana Street - " " " Marin "
Georgia Street - " " " " "
Michigan Street - " " " " "

CHANGES IN OFFICIAL WIDTHS OF SIDEWALKS

Hickory Street, - Gough Street to 110 feet westerly
Geneva Avenue - Northwesterly termination to the county line
Miller Place - Sacramento St. to its northerly termination
Bush Street - Grant Avenue to Kearly Street

CHANGES IN OFFICIAL GRADES APPROVED

Green Street - Jones Street to 115 feet easterly
Twenty-fifth Street - Noe Street to Sanchez Street

FIELD SURVEYS

TABLE 1-B

NUMBER OF SURVEYS

A total of 236 field surveys, undertaken and completed by the six survey parties of the Division's Field Engineering Section, comprised the following:

Public Improvement Surveys for:	
Public Assessments and Private Contracts	37
Contracts Financed by City	192
Site and Lot Location and Topographic Surveys for:	
Bureau of Architecture	4
Recreation and Park Department	3

Survey fees received by the City for Public Assessment and Private Contracts totaled - $9,650.

EXTENT OF SURVEYS

The aggregate length of field surveys completed totaled 65.41 miles, in addition to which 9.69 acres of topographic surveys were completed. The aggregate length, which was the sum of the various construction project lengths except were not applicable, comprised the following:

Cross sections for street, structure, sewer and drainage design	6.08 miles
Line and grade for construction of:	
Sewer and drainage systems	2.53 miles
Street Grading	1.25 miles
Pavements and curbs	1.69 miles
Line, grade and cross sections for reconstruction of existing:	
Pavements	2.21 miles
Pavements including track removal	0.33 miles
Curbs and gutters	0.15 miles
Subsidence Areas	2.32 miles
Slide Areas	1.05 miles

EXTENT OF SURVEYS (Continued)

Block, Site and Lot:

Surveys (boundary lengths)	0.64 miles
Resurveys (frontage lengths	None
Reference marks (frontage lengths)	1.72 miles
Monument lines checked	20.46 miles
Grade Studies	0.17 miles
Miscellaneous surveys (not included above)	20.07 miles

Post-Construction examination of:

Street Grading	1.25 miles
Sewer and drainage systems	1.47 miles
Pavement and curbs	2.02 miles

MONUMENTS

In addition to the aforementioned checking of existing monument lines, 293 survey monuments were set or reset, and referenced, and 46 monuments examined for repair and, if necessary, repaired.

PRECISE LEVEL SURVEYS

Precise level bench marks established, and elevations redetermined on existing bench marks totaled 766 required the running of approximately 84.2 miles of precise levels in addition to the aforementioned survey mileage.

MISCELLANEOUS SURVEYS AND STUDIES

TABLE 1-C

SURVEY PLATS PREPARED

Golden Gate Park — Proposed Nursery — Topographic Survey
Eureka-Noe Health Center — Boundary and Topography
Raphael Weil School Site — Boundary and Topography
San Francisco Zoological Gardens — Cold Water Lines
San Francisco Zoological Gardens — Sanitary and Storm Sewers
San Francisco Zoological Gardens — Gas and Electric Lines

OTHER MISCELLANEOUS STUDIES

More than fifty (50) miscellaneous drawings were prepared in connection with property acquisitions and dispositions; street openings, widenings, and vacations; and easement acquisitions and abandonments.

More than twenty (20) reports regarding City interest in actions to quiet title were made to the City Attorney's office.

One hundred thirty (130) descriptions for deeds to and from the City, involving the Department of Public Works, were checked.

Five (5) appeals from decisions of the City Planning Commission were checked to determine whether the signatures thereon represented at least 20% of the property owners within a radius of 300 feet of the property involved, so as to qualify the appeals for consideration by the Board of Supervisors.

DIVISION OF CONSTRUCTION

INSPECTION — Major construction projects included the enlargement of the Marina Yacht Harbor and construction of sanitary facilities in the Golden Gateway Redevelopment Area.

Enlargement of the Marina Yacht Harbor entails the construction of a pre-stressed concrete sheet pile breakwater.

Construction in the Golden Gateway Redevelopment Area has required close coordination and phasing of the activities of all involved construction agencies which include the Department of Public Works, San Francisco Redevelopment Agency, the redevelopers, the utility companies, and the California Division of Highways.

LABORATORY AND TESTING — The testing laboratory continued to provide testing services for other City Departments and Agencies. New equipment acquired over the past few years has enabled the laboratory to improve its services and increase its efficiency. Continuation of this modernization program should result in improved services, efficiency of operations, and economies.

Concrete - Compression Tests	1011
Soil - laboratory tests	269
- construction control tests	121
Asphalt Paving Materials - laboratory tests	76
Metals - strength and chemical tests	152
Misc. Building Materials - lab investigation	51
Materials & Supplies for City Purchaser - evaluation tests	247
Total	1915

OFFICE MANAGEMENT

SUPERVISORY PERSONNEL
AS OF JUNE 30, 1964
C. J. Geertz, City Engineer
R. T. Shoaf, Ass't. City Engineer

DIVISION AND SECTION	PERSON IN CHARGE
STREETS AND HIGHWAYS	W. C. Ewing, Senior Engineer
Street Improvement Section	H. G. Louie, Engineer
Highway Section	L. T. Tom, Assoc. Engineer
Street Reconstruction Section	E. J. Sierra, Engineer
DESIGN	G. Galli, Principal Engineer
Structural Section	G. Jeong, Senior Engineer
Sewer Section	B. S. Martin, Senior Engineer
Sanitary and Special Projects Section	A. O. Friedland, Senior Engineer
Mechanical Section	W. F. Eisenberg, Senior Engineer
Electrical Section	A. E. Tanner, Senior Engineer
Contract Preparation Section	J. Lee, Engineer
Standards, Utilities and Estimates Section	C. T. Beggs, Engineer
Administrative Section	R. F. Lauenstein, Admin. Engineer

SUPERVISORY PERSONNEL (Continued)

RECREATION AND PARK ENGINEERING	G. Harman, Supervising Engineer
Office Engineering	W. Person, Engineer
Field Engineering	C.J. Lynch, Survey Party Chief
SURVEYS AND MAPPING	S.C. Gerughty, Senior Engineer
Administrative and Records Section	A. Hollett, Ass't Engineer
Office Engineering Section	G. Q. Woo, Engineer
Field Surveys Section	G. Miller, Assoc. Engineer
CONSTRUCTION	J.D. Roberts, Senior Engineer
Inspection Section	T. J. Ford, Construction Engineer
Testing Section	P. Bernard, Engineering Chemist
TRAFFIC ENGINEERING	W. Marconi, Senior Traffic Engr.
Administrative Section	Vacant
Downtown Section	B. Johnson, Assoc. Engineer
Legislative Section	C. M. Lang, Ass't Engineer
Design Section	N. Bray, Ass't Engineer
Planning Section	R. Evans, Acting Ass't Engineer
Operations Section	G. Hansen, Ass't Engineer
CONTRACT ADMINISTRATION	F. Giusto, Admin. Engineer
LIAISON ENGINEER	H.H. Beneke, Assoc. Engineer
OFFICE MANAGEMENT	F.R. Nichols, Head Clerk

PERSONNEL AT BEGINNING AND END OF FISCAL YEAR:

DIVISION	July 1, 1963	June 30, 1964	Change
Administration	8	8	
Streets and Highways	33	40	plus 7
Recreation & Park Engineering	15	16	plus 1
Design	97	100	plus 3
Surveys and Mapping	41	41	
Construction	28	24	minus 4
Traffic Engineering	28	28	
Office Management	16	14	minus 2
TOTAL	266	271	plus 5

(1)	Employees in Professional Classifications	120
	Employees in Sub-Professional Classifications	118
	Employees in Clerical	33
		271

RETIREMENTS

During the past year the following employees were retired and recognition is given to their faithful service to the organization.

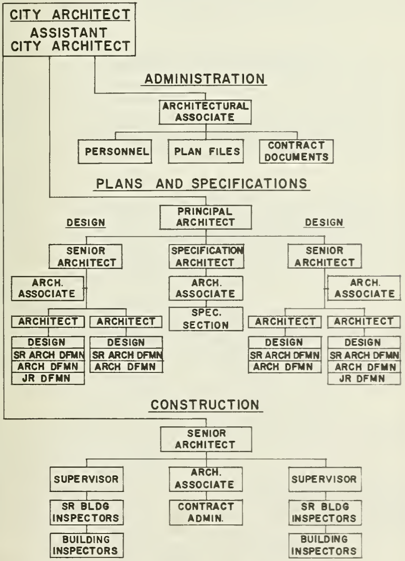
Daniel Rothbaum	8-1-63	Inspector of Public Works Construction	27 years
Esther Peterson	9-1-63	General Clerk Typist	10 years
Engelbert Zinkel	11-1-63	Civil Draftsman	19 years
James Kazan	12-1-63	Construction Engineer	35 years
Robert A. Bird	12-1-63	Civil Draftsman	17 years
Thomas P. Mullaney	1-1-64	Associate Construction Engineer	37 years
Anita M. Reed	2-1-64	Senior Clerk	32 years
Germaine W. Miller	5-1-64	Associate Civil Engineer	38 years
George S. Harman	7-1-64	Supervising Engineer-Recreation-Park Division	36 years
Peter P. Bernard	7-1-64	Engineering Chemist	40 years

PAYROLL

The following tabulation shows the number of employees and total payroll charged to General, Project and Road Funds:

SOURCE OF PAYROLL FUNDS	EMPLOYEES 1963-64	PAYROLL 1963-64
General Fund		
Budget Payroll	66	$ 666,158.87
Project Funds (Gas tax, bond, general, etc.)	27	1,547,769.62
Road Fund - Traffic Engineering	178	224,080.39
	271	$2,438,008.88

BUREAU OF ARCHITECTURE
DEPARTMENT OF PUBLIC WORKS
ORGANIZATION CHART
JUNE 30, 1964



PERSONNEL 62

BUREAU OF ARCHITECTURE

Charles W. Griffith, City Architect

FUNCTIONS

The Bureau of Architecture has the responsibility for design and construction of new City buildings, and the modernization, remodeling, and such maintenance projects on existing City buildings as may require plans and specifications, or which may exceed $2,000 in cost. The activities of the Bureau are divided into two separate but related general functions: (1) the preparation of drawings, specifications, and estimates; and (2) the supervision of construction.

Once the need for a building project is established, the Bureau assists the Department which will occupy the structure in the preparation of a basic program and the acquisition of a building site. The program consists of general information relative to the functions to be performed in the building, the number and type of employees who will be housed in the building, the public to be served, and related data. The Bureau then prepares preliminary drawings, specifications, and estimates of costs, and when funds are available, the final drawings, specifications, and estimates. The bid forms are then prepared, and the project advertised. After bids are received they are analyzed and recommendations are prepared concerning award of contract. After award of contract, Bureau personnel inspect the work under progress, certifying its completion in conformance with the contract, together with progress and final contract payments.

The amount of work in the Bureau as of July 1, 1964 was as follows:

	No. of Jobs	Amount
1. Bond Issues in Preparation	67	$58,200,000.00
2. Final Drawing Stage	74	3,334,620.00
3. Under Construction	72	20,527,000.00
4. Contracts Completed (1963-64)	114	5,262,000.00
Total	327	$87,323,620.00

In addition, preliminary data has been prepared for two additional bond issues in total amount of $25,695.000.

ORGANIZATION

The Organization Chart indicates in brief manner the breakdown of divisions which have been found to be efficient in processing the Bureau's work. The City Architect is the Bureau Head and is assisted in discharging his responsibilities by the Assistant City Architect. The organization of the Bureau is broken down into three separate divisions: Administration, Plans and Specifications, and Construction. The responsibilities of these divisions are further defined as follows:

ADMINISTRATION DIVISION

Section I - Personnel

This section is responsible for fiscal arrangements and work orders for both architectural and related engineering services.

Section II - Plan Files

This section is responsible for requisitions and procurement of blueprints, assembly of blueprints, specifications and bid forms, the filing of tracings, blueprints and specifications, and related work.

Section III - Contract Documents

This section is responsible for the assembly, checking, and issuance of the contract documents to contractors who prepare bids for the various jobs.

PLANS AND SPECIFICATIONS DIVISION

The responsibility for processing the various jobs from initial inception to completion of the final drawings, specifications and estimates is divided into four sections. Each of these sections is headed by an architect who not only maintains formal and informal relationships with the client agency but also supervises the personnel assigned to him for the preparation of the drawings and specifications.

CONSTRUCTION DIVISION

This Division supervises and inspects all work under construction. The responsibilities of the Construction Division include progress and validity of the contract work, contract payments, and certification of completion of the contract. The number of contracts under construction is 72 and the amount is $20,527,000.

The Construction Division is headed by a senior architect, and there is a chief building inspector who supervises the building inspectors who are assigned directly to the construction jobs. A secondary responsibility of the Construction Division is concerned with jobs completed throughout the previous fiscal year. The amount of work which will be done on the completed jobs is indeterminate, but in certain cases will be considerable. A thorough inspection must be made at the end of the year bonded guarantee period one year after the accpetance of the job, and any defect found which is the result of faulty materials or workmanship must be corrected by the contractor. A situation often develops in which much correspondence and many conferences are involved when such defective work is discovered, and considerable time is always required to effect a proper disposition of such cases.

BOND ISSUES

The greatest amount of the Bureau's work consists of the design and construction of buildings for which bonds have been voted. Bond issue work being processed is as follows:

I. 1956 School Bond Issue $27,000,000.00

All projects of this bond issue were either under construction or completed on June 30, 1962, and the status was as follows:

A. Construction Completed (80%)

	Proj. No.	Name	Amount
1.	135	Starr King School	$ 285,200.00
2.	105	John O'Connell Voc. H.S.	266,046.00
3.	119	Balboa H.S.	26,400.00
4.	121	H. Mann Jr. H.S.	88,712.00
5.	125	Silver Ave. Jr. H.S.	1,035,542.00
6.	124	G. Washington H.S.	107,612.00
7.	150	Polytechnic H.S. (Alterations)	35,374.00
8.	150	Polytechnic H.S. (Kitchen)	96,557.00
9.	150	Balboa H.S. (Athletic Field)	109,760.00
10.	130	Clarendon School (Grading)	4,380.00
11.	150	H. Mann Jr. H.S. (Alterations)	73,510.00

12.	150	H. Mann Jr. H.S. (Library)	46,697.00
13.	150	Roosevelt Jr. H.S. (Play yard)	50,478.00
14.	113	S.E. High School (Grading)	84,444.00
15.	123	Portola Jr. H.S.	463,500.00
16.	132	Longfellow School	844,000.00
17.	120	Francisco Jr. H.S.	578,000.00
18.	101	City College	2,245,600.00
19.	119	Lincoln H.S. (Athletic Field)	327,200.00
20.	122	Denman Jr. H.S.	455,183.00
21.	130	Clarendon School	848,849.00
22.	132	J. Ortega School	608,690.00
23.	120	Francisco Jr. H.S. (Yard)	50,000.00
24.	(None)	Fire Department Requirements	2,300,000.00
25.	(None)	Various Alterations	300,000.00
26.	114	Southwest (Lowell) H.S.	4,151,000.00
27.	113	Golden Gate School	575,000.00
28.	(None)	Reconstruction	1,450,000.00
29.	113	Southeast (W. Wilson) H.S.	4,324,000.00
		Subtotal	$21,831,644.00
		B. Under Construction (4%) Reconstruction	1,069,000.00
		C. Equipment (4%)	1,500,000.00
		D. Miscellaneous Costs and Contingencies (12%)	2,599,644.00
		Total	$27,000,288.00

From the above report it is obvious that excellent progress has been made on this bond issue and that all bond jobs will be completed within the money available.

II. 1959 Civic Auditorium Bond Issue $7,575,000.00

The work on the Civic Auditorium was rapidly approaching completion on June 30, 1964, and the following data is given on this huge project.

AREAS

Basement	61,400 square feet
First Floor	96,050 square feet (includes 32,800 square feet of Arena Main floor)
Second Floor	46,500 square feet (excludes Arena)
Third Floor	54,800 square feet (excludes Arena)
Fourth Floor	43,500 square feet (excludes Arena)

Arena Volume

First floor below the balcony	437,000 cubic feet
Above First Floor	2,560,000 cubic feet
Total Arena Volume	Approx. 3,000,000 cubic feet

The 1959 $7,575,000 Bond Issue plus budget appropriations, a total fund of approximately $8,000,000, has financed the rehabilitation of the auditorium. The work will provide an efficient and attractive building, fully equipped and furnished, properly designed to serve for conventions and trade shows and to give it a flexibility of use which will permit many cultural and entertainment functions. Throughout the planning and the reconstruction the prime criterion has been the development of this building toward multiple use and purpose.

Externally, the mass and finish of the building has been changed very little. However, two specific additions are made to provide for necessary functions in the reconstructed building; the addition of required fire stairs on the Polk and Larkin Street sides of the building and the filling in of the open corners on Hayes Street with space to house the heavy air conditioning equipment. The fire stairs are reinforced concrete construction with the main shaft which supports each flight of stairs given a bush hammered finish. These stairs provide the necessary exit ways from the third and fourth floors assuming that the meeting rooms on these floors are being used to capacity.

The mechanical equipment areas on Hayes Street are steel frame and concrete structures, encased in brick with large precast concrete grilles for visual enclosure yet permitting the passage of air necessary to the function of this equipment.

Also on Polk and Larkin Streets the windows which opened into the large halls and to the meeting rooms, no longer desired in present day occupancies which can better utilize controlled environment, have been closed up with brick.

The Grove Street facade of granite could not appreciably be altered. However, the large Grove Street windows have been opened with clear glass permitting activity within the building to be seen, at the same time permitting people in the corridors of either the second, third or fourth floors to look out over the Plaza. The marquee is being completely renovated with a new roof, a new ceiling incorporating new and adequate lighting and with illuminated theater type signs. All of the Grove Street doorways have been redesigned and widened using thin aluminum doors and full glazing. The only change in the granite work has been the removal of the very heavy moldings which framed the small ticket windows and the replacement of these with large open simple granite work. Although each part of this work has been done primarily to improve the function and operation of the entrances, ticket offices, etc. the end result is one of modernization and a more inviting appearance.

Inside the building, although structural form could not be materially changed, very little of the building remains as it used to be. And everywhere new surfaces or new finishes at least have been applied to that small part which does remain. The main floor corridor does retain much of its arch character but an added lower arched ceiling

Civic Auditorium - Main Hallway, Looking East conceals indirect lighting, sprinkler pipes, air conditioning duct work, etc. and as well provides an acoustical control over this corridor which used to be incredibly noisy. The old lighting lanterns are being restyled and will be hung from indirectly lit domes in this new acoustical ceiling. The Arena entrance-ways have been changed to wider more spacious openings; the old check stands, concession stands, etc., have all been changed to wide and spacious counter areas with vertically sliding doors permitting these to be closed when not in use. With a completely new latex terrazzo floor and a totally redone color scheme these main floor corridors will now present a more modern, spacious and inviting lobby area, at the same time retaining some of the pleasant quality of the original design in this space.

Polk and Larkin Halls have been completely redone. The ceilings of these halls are formed into three panels of indirect cove lighting which may be operated at three different levels of intensity and is augmented by direct lighting to be used during exhibit times. This direct lighting may be focused on specific areas and a portion of it may be utilized for theatrical type lighting on a speaker's or performance platform at the south ends of the Hall. Each Hall is divided into a one-third to two-third operation if desired by sound proof retractable walls. The ceilings of these Halls are of plaster, the walls constructed of TECTUM above the durable wainscot of canvased plywood. The floor in both of these halls and in the arena is a dense dark colored concrete known as a MONOROCK floor by the Kalman Floor Company. These rooms may now be used as exhibit areas, lecture or meeting halls, seating 350 in the smaller area, 700 in the larger or 1,100 people in a total hall; or as reception halls or for many other uses.

In the main arena the primary concern has been to provide for the many uses to which this area may be put. Acoustics, lighting, sound amplification, air conditioning and ventilation are all important and are all provided. Although remaining the same size and functioning much as it has in the past the arena is completely done over. New wall surfaces, new dense concrete flooring, again MONOROCK, and a new tiered ceiling, actually a deck of heavy ribbed steel, have all been added. The balcony floor has been completely resurfaced with epoxy concrete, a non-skid easily cleanable material which has also permitted the increase of the treads of all steps in the balcony for safety. Great care and study have been given to the design for proper acoustics, with soft surfaces to eliminate reflections on nearly all of the walls, hard regular surfaces on ceilings to give brilliance to sound rather than deaden it. Consideration has been given in the design to accommodate all of the various sound making activities in the room -- a speaker, a symphony orchestra, a flute or violin solo, an organ, a singer or a jazz concert. At the same time facilities have been built into the space to accommodate all the other types of activities -- basketball, roller derbys, exhibits in trade shows, convention meetings, etc.

There is a new complete lighting system developed by the lighting specialist, Mr. Abe Feder from New York. Except for the 40 foot diameter chandelier and small decorative lights in the face of the balcony the balance of lighting is mounted above the ceiling projected through apertures which occur between the decks of the ceiling. This is so arranged as to make it possible to provide light in any amount or color on any spot of the floor, the main platform or a central arena, stage or boxing ring, simply by utilizing the proper switching and adjusting the dimmers.

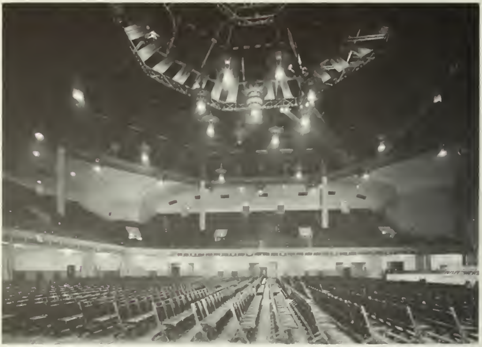
As well as providing decorative and room lighting the chandelier does provide specific targeted light for certain areas of usage on the floor. 24,000 watts of light are thus targeted, 20,000 watts of light are used as indirect components reflecting from the ceiling and 32,400 watts of light are directed downward through 216 formed glass pendants. There is a total of 76,400 watts of illumination possible from this Arena chandelier. As well, there is provision for some additional 450,000 watts of lighting facility throughout the arena. This is controlled through 78 dimmers on approximately 140 different dimmer circuits utilizing double throw switches which permit infinite control without having to duplicate the expensive dimming equipment.

To provide a rugged wall protecting the acoustical treatment necessary on the walls of the Arena some 14 miles of 2x Hemlock boarding has been used. Stained dark below the balcony the remainder of this boarding is stained quite light for both warmth and reflectivity. Behind this boarding there is a thick mat of fiberglass absorbent material mounted over the plastered walls of the arena.

At the main platform end directly in front of the organ, three 72 foot long doors are mechanically operated in the ceiling structure itself. Hung above these are 15 sets of rigging pipes operated from a newly installed electronic grid high in the roof trusses. This will permit the ready usage of this platform area for any type of performance or show which is desired in the building. The entire platform area is surrounded with a great concert curtain which may either be used as a fixed frame or an operable theater curtain.

The heavy steel decking used for the ceiling provides several functions;a hard reflective surface which at the same time is broken up so that sounds become brilliant but do not bounce with direction, a structural deck for the mounting of the arena lighting, the lighting chandelier, the sound system speakers, etc. and as well a complete catwalk system per se which permits ready accessibility of all equipment that is above the ceiling.

Projecting down lights have been mounted above the balcony ceiling and the edges of the main ceiling which will project narrow beams of light down onto the aisles and steps of the balcony.

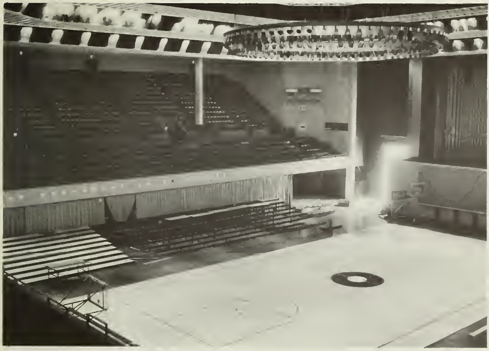


Civic Auditorium - Main Arena before 9/1/61

The entire arena and Polk and Larkin Halls are all equipped with electrical power outlets and large scale open duct work under the floor. In addition, there are connections for hot and cold water, sewer drains, gas, etc. thereby making it possible for exhibits to be placed in practically any pattern throughout the main floor of the arena and be provided with all types of utilities without necessitating crossing the aisles with wires, piping, etc. Some 680 kilowatts of power is provided for exhibitors' utilities through this means.

The entire electrical system throughout the building has been completely re-done. The electrical service capacity from two transformer vaults, one in Grove Street and one in Hayes Street, provides a total of 7,000 amperes capacity. There are motors in the building to operate the heating, ventilating and air conditioning, pumps, fans and miscellaneous other things using in excess of 2,500 horse power from this electrical system.

The entire building has been totally air conditioned utilizing 1,065 tons of air conditioning refrigeration which is developed by three electrically motor driven hermetic chillers each of which is driven by a 350 horse power electric motor. This provides cooling water at the rate of 1,597 gallons per minute and is used to cool 590,000 cubic feet of air per minute. The arena alone is supplied with 270,000 cubic feet of air per minute giving an approximate total air change five times an hour in that room. Polk and Larkin Halls each are supplied with 30,000 cubic feet per minute of conditioned air.


Civic Auditorium - Main Arena after 9/1/64

The air is moved by a total of 71 fans, 37 of which are supply fans and 34 return air fans, electrically driven, utilizing 538 horse power. These fans vary from 50 horse power each to some which are only one half horse power. Air movement throughout the building is quieted by 214 acoustical attenuaters. A cooling tower has been built into the southeast mechanical space below the roof line so that it is invisible. This utilizes a lightweight polystyrene filling and handles 2,130 gallons per minute of water from the chillers. Outdoor air is induced through this cooling tower by three 72 inch diameter 15 horse power adjustable pitch tube axial fans. When heating is required it is provided at the rate of 1,100 gallons per minute of water heated by the City steam system. The building is equipped with 17 special exhaust fans getting rid of 65,100 cubic feet per minute of unwanted air.

The second floor has been totally reconditioned providing a general lounge area for intermissions or a gathering place during conventions. Four large concession stands are provided in the vicinity of the newly opened windows looking out across the Plaza. The main men's and women's lounges are also provided on this floor.

Civic Auditorium - Second Floor Corridor 9/1/64

The third and fourth floors have been practically gutted and are now completely rebuilt providing 14 meeting rooms on either side of each floor which, together with 2 meeting rooms on either side of the second floor, provide a total of 60 new modern meeting rooms. The columns could not be eliminated to make greater spaces due to the fact that these are actually hangers suspending the third and fourth floors from the roof trusses. Some of the meeting rooms are equipped with retractable soundproof walls permitting two or three to be opened into one space. All rooms are acoustically treated, well lit, individually controlled for lighting, air conditioning, etc. In many, conduit and facilities are provided to make it possible to bring in audio-visual equipment and use this easily without exposed cords or wires. Speakers are provided in the ceiling and connected by conduit to an amplification space and thence to microphone locations. The sound equipment itself and the projectors, with the exception of loud speakers, and not provided as these are often peculiar to the particular meeting or lecture and it is better that these be provided independently by the lecturer.

The schedule of meeting rooms is as follows:

SCHEDULE OF MEETING ROOMS

Quantity	Capacity	Size	Room No.
8	46	18 x 18	311
			312
			313
			314
			317
			318
			319
			320
4	52	17 x 21	321*b
			322*c
			323*b
			324*c
4	53	17 x 22	422*g
			423*f
			424*g
			421*f
8	56	18 x 22	411
			412
			413
			414
			417
			418

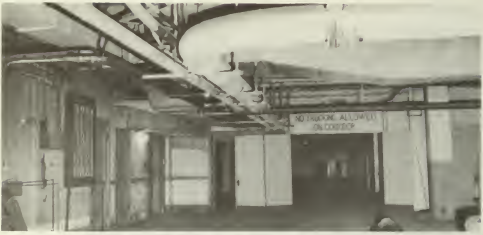
SCHEDULE OF MEETING ROOMS Continued

Quantity	Capacity	Size	Room No.
			419
			420
2	63	17 x 26	325*b
			326*c
6	64	18 x 25	305
			306
			405
			406
			427
			428
2	68	17 x 28	205
			206
8	71	20 x 25	307*a
			308*d
			309*a
			310*d
			407*e
			408*h
			409*e
			410*h
2	77	16 x 34	327
			328
2	78	22 x 25	425*f
			426*g
2	103	19 x 38	203
			204
2	108	27 x 28	301
			302
2	140	24 x 41	303
			304
2	140	28 x 35	401
			402
2	142	25 x 40	403
			404
2	164	25 x 46	315
			316
2	200	25 x 56	415
			416

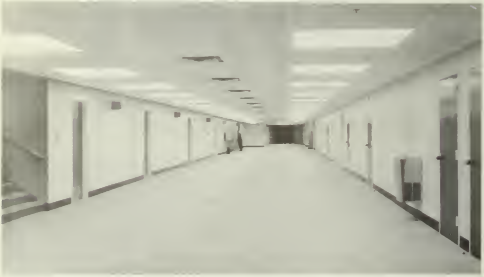
Throughout the building the toilet rooms have been completely rebuilt with provisions for women's powder rooms, and lounge areas.

Civic Auditorium - Main Arena typical toilet before 9/1/61

Civic Auditorium - Main Arena typical toilet after 9/1/64



Civic Auditorium - Basement Corridor - Before 9/1/61



Civic Auditorium - Basement Corridor - After 9/1/64

Provision is made for four new passenger elevators on either side of the building at the north end though only three of these are installed on each side at the moment. Escalators are provided on either side of the building, operating between the first and second floor. These are reversible and may be operated either up or down as the flow of traffic demands. In addition, the two new freight elevators at the south side of the building may be utilized for passenger handling with an attendant operating them. The service elevators in the corners of the Arena from the main floor to the basement have been built at nearly twice their original size.

The pipe organ which has better than 8,000 pipes is being completely reconditioned by the original builder, Schoenstein and Son, and equipped with a new console.

The rehabilitation of the Auditorium will be completed in the summer of 1964, approximately 6 months ahead of schedule. It will be used almost continuously for conventions and special events, beginning in August, 1964.

III. 1959 Palace of Fine Arts Bond Issue $1,800,000
(Total Cost $7,734,440.00)

This building was built for the 1915 Pan Pacific Exposition Fair at a cost of $632,000. It is the only building not demolished after the fair. Due to the temporary nature of its construction, it has gradually deteriorated. Some rehabilitation, as required, was completed by the WPA during the depression years.

In 1957 the State offered $2,000,000 towards the permanent rehabilitation of the Palace, provided matching funds were provided from other sources. In 1958 a bond issue of $3,600,000 failed to receive the required 2/3 majority. Mr. Walter Johnson then gave the City $2,000,000 providing the matching funds, and in November, 1959, a bond issue of $1,800,000 was approved. This was a Recreation-Park bond issue and, while the cost data available to that department indicated that the $5,800,000 then available, was adequate, no detailed estimate had been prepared to that date. The project was referred to the Department of Public Works as soon as property was cleared in February of 1961.

William G. Merchant and Associates and Welton Becket and Associates were engaged as project architects. Preliminary plans and specifications were prepared and the preliminary estimate for all work contemplated by the Bond Issue was $12,800,000. In order to fit the job within the budget, John R. Cahill, prominent builder, proposed that the Palace be rebuilt in poured concrete, and that the end pylons be omitted. The Board of Supervisors approved this "Cahill" plan and directed the Department to get bids thereon. The bids received, November 20, 1963, exceeded the funds available by $1,600,000, of which Mr. Johnson, and the Palace of Fine Arts League provided $750,000, and $850,000 was provided on the 1964-1965 budget. The final financing of the project is as follows:

I Funds Provided		$7,734,440.63
**A. Mr. Johnson's Gift	$2,000,098.63	
Interest to 7/1/64	334,342.00	

B.	State Funds	2,000,000.00	
C.	1959 City Bond Issue	1,800,000.00	
**D.	Palace of Fine Arts League Contributions	750,000.00	
E.	1964-65 City Budget Appropriation	850,000.00	
II	Allocations		$7,734,440.63
A.	State Costs (established by agreement & lease)$	50,000.00	
*B.	Preliminary Plans and Specifications	205,300.00	
	1. Preparation of plans and specifications	131,250.00	
	2. Soils analysis	30,000.00	
	3. Materials investigation	6,500.00	
	4. DPW Costs (Bureaus of Architecture, Engineering and Building Repair	37,000.00	
	5. Preparation of Samples	550.00	
*C.	Final plans and specifications		$374,944.00
	1. Preparation of final plans and specifications		$246,800.00
	2. Removal and storage of art objects		$ 25,000.00
	3. Encumbered in architect's contract		$ 85,944.00
	4. Load tests		$ 2,000.00
	5. DPW Costs (Bureaus of Architecture and Engineering) blueprint and specification and miscellaneous costs		$ 15,200.00
D.	Construction		$7,104,196.63
	1. Low Base Bid		$6,600,000.00
	2. Alternate XVIII (Additive) (Required for Public Assembly occupancy)		$ 49,800.00
	3. Estimate of Inspection Costs		48,000.00
	4. Estimate of special tests and investigations		15,000.00
	5. Architectural Supervision		116,375.00
	6. Contingent Fund		275,021.63

* Expended or encumbered
** Additional interest received on these contributions is to be applied to rehabilitation.

Work was scheduled to start on July 16, 1964, with a dedication ceremony by Mayor Shelley, and will be completed approximately three years later, July 1967.

V. De Young Museum Bond Issue $2,725,000.00

This bond issue was approved by the electorate in June 1960. It was a Recreation and Park bond issue and the estimate was prepared by a private architect. The purpose of the bond issue is to provide a new west wing for the Museum in which an Oriental Art collection will be housed. This art collection is being presented to the City by Mr. Avery Brundage, contingent upon the City's providing a suitable building for its storage and display.

The estimate which formed the basis for this bond issue is as follows:

1960 Recreation and Park Bond Issue

a.	Construction estimate 1962 prices		$2,288,832.00
b.	Architects and Engineers fee		160,218.00
c.	Exhibit cases Architectural fee	$240,000.00 16,800.00	256,800.00
d.	Soil borings		4,500.00
e.	Full time inspection		10,000.00
f.	Office furniture		4,650.00
		Total	$2,725,000.00

Bids were received on June 3, 1964, and the low bid by Carl W. Olsen, was $1,723,100. Contract was awarded June 5, 1964, and preliminary operations were beginning on the job on July 1, 1964. The job is scheduled to be completed in December, 1965, and will be occupied on or about January 1, 1966.

The following bond issues, which have been approved by the Mayor, the Bond Screening Committee, and the Board of Supervisors, will be on the November 1964, ballot for consideration by the electorate. Estimates and preliminary data for these bond issues were developed by the Bureau of Architecture.

I. 1964 School Bond Issue $31,464,500.00

The 1948 and 1956 School Bond Issues are now completed. The 1948 School Bond Issue, $48,890,000, included the following major projects in addition to much modernization and reconditioning of existing schools:

27 Elementary Schools (23 new schools, 4 additions)
4 Junior High Schools (3 new schools, 1 conversion)
2 Senior High Schools (2 additions)
2 City College buildings
1 Trade and Vocational School

The 1956 School Bond Issue ($27,000,000) included the following major projects in addition to much modernization and reconditioning of existing schools:

6 Elementary Schools (1 new school, 2 replacements, 3 additions)
4 Junior High Schools (4 additions)
5 Senior High Schools (2 new schools, 3 athletic fields)
2 City College Buildings
1 Vocational School Addition

The 1964 School Bond Issue ($31,464,500) is based on a number of needs of the school department not taken care of by the previous school bond issues, including the replacement of elementary schools and the construction of new secondary schools, as follows:

1. Diamond Heights Elementary School
2. O'Shaughnessy Blvd. Sr. High School
3. City College Administration Building
4. Carolina Street Junior High School
5. Paul Revere Elementary School
6. Starr King Elementary School
7. Burnett Elementary School
8. Bret Harte Elementary School Addition
9. Raymond Avenue Junior High School
10. El Dorado School Addition
11. Grattan Elementary School
12. Cabrillo Elementary School
13. Replacement of temporary classrooms
14. Modernization and Rehabilitation

Assuming passage of the bond issue in November 1964, work will start in the Spring of 1965, and will be completed five years later, early in 1970.

II. 1964 Fire Department Bond Issue $4,890,000.00

The 1952 Fire Department Bond Issue ($4,750,000) is now completed. It included the following:

14 new fire houses
1 new fire station (partially financed by bonds)
11 re-constructed fire stations
9 structural surveys
1 structural survey, plans and specifications

The 1964 Fire Department Bond Issue includes the following:

NEW CONSTRUCTION

S.F.F.D. Headquarters	264 Golden Gate Avenue	$1,055,000.00
Fire Stations		
Engine Company 7	Addison & Digby Streets	310,000.00
Engine Company 33	117 Broad Street	310,000.00
Engine Company 36	551 - 26th Avenue	310,000.00
Engine Company 43	724 Brazil Avenue	310,000.00
Engine Company 28	1814 Stockton Street	256,000.00
Engine Company 37	2501 - 25th Street	458,000.00

RECONSTRUCTION

Engine Company 2	460 Bush Street	310,000.00
Engine Company 3	1067 Post Street	310,000.00
Engine Company 8	1648 Pacific Avenue	310,000.00
Engine Company 16	909 Tennessee Street	143,000.00
Engine Company 18	1298 Girard Street	137,000.00
Engine Company 19	1300 - 4th Street	126,000.00
Engine Company 17 Truck Company 1	416-20 Jessie Street	296,000.00

REHABILITATION

Improvements to kitchens, bathrooms, and other needed items, as required	250,000.00
Total	$4,891,000.00

This total was rounded off to $4,890,000 for the sake of convenience. All costs listed are based on current estimates of the Bureau of Architecture, Department of Public Works; the estimates take into account projected construction costs increments to the probable time of actual construction.

The proposed Bond Issue was approved by the Fire Commission at its regular meeting of May 19, 1964. At its regular meeting of June 3, 1964, the Fire Commission approved the revision of the original cost estimates, which constitute the detailed figures listed above.

PROJECTS

The proposal to construct a San Francisco Fire Department Headquarters Building is based on a long-standing need for such a facility. The Fire Department has been occupying "temporary" quarters in the basement of the City Hall for about fifty years. In addition to being inadequate in many respects, the space occupied by the department is ear-marked for use as a portion of the new Electronic Data Processing Center.

Jurisdiction over the new San Francisco Fire Department Headquarters site was recently transferred to this department, so there will be no problem of site acquisition.

The new Engine Company 7 fire station will be located at the northeast corner of Addison and Digby Streets on a site recently acquired by this department. This station is needed to provide fire protection to the rapidly developing Diamond Heights area. The existing company will be transferred to the new station from its present location at 3160 Sixteenth Street.

The new fire station for Engine Company 33 will be located at or near the present station at 117 Broad Street, which was constructed in 1896. This wood frame structure is obviously obsolete and should be replaced. Engine Company 36 occupies a wood frame structure build in 1905; it is inadequate and obsolete and should be replaced. The new station will be located at or near the present location at 551 Twenty-sixth Avenue.

Engine Company 43 at 724 Brazil Avenue was constructed in 1912. Like Engines 33 and 36, the existing station is inadequate and obsolete. The new structure will be built at the present location. Engine Company 28 at 1814 Stockton Street does not comply with modern standards of structural safety for fire stations. The present station was built in 1913. A saving over the normal cost of construction will be effected by building a new station on the existing first floor slab; the slab and the supporting structure have been found to be adequate from an engineering standpoint.

Engine Company 37 at 2501 Twenty-fifth Street is poorly located operationally. The present station, which was built in 1918, does not meet modern standards of structural safety for fire stations. The cost of reconstruction would be about equal to that of a new station, according to our structural engineering survey. Accordingly, a new station at a new site is proposed.

Reconstruction of the eight stations listed (Engines 2, 3, 8, 16, 17, 18, 19 and Truck 1) is required in order to meet modern standards of structural safety. The additional amount listed for rehabilitation will permit needed work to be done concurrent with the reconstruction, but not directly associated therewith, such as kitchen and bathroom modernization and similar items.

The program previously listed and described will complete the task of bringing the fire stations of San Francisco to modern standards of safety, utility and convenience. Favorable consideration is earnestly recommended.

III. 1964 Junior Boys' School Bond Issue $1,300,000.00

BACKGROUND

Funds were made available in January of this year for a master plan study for a Junior Boys' School at the Ranch.

It was immediately determined that this would not be a duplication of the existing Ranch. The age range of the proposed facility, i.e., 10 to 15, would preclude a work program as now used at the Ranch for the older boys. In place of a half-day school, half-day work, the proposed program would be a full time school set-up.

Furthermore, the problems generated by younger boys indicated a different approach for the dormitories, play areas, etc. The State Youth Authority personnel cooperated with data from other camps in the State. Visits to other junior camps were arranged and data gathered to plot a junior program.

Several sites at the Ranch were considered and on March 20, one of these sites was found acceptable to the concerned authorities, and the Bureau of Architecture started the survey.

The program has been developed with the aid of the Chief Probation Officer, Mr. Thomas Strycula, Camp Director Ed. Chay, and their staffs, as well as with Dr. John Roberts, Messrs. Lester Russell and James Kilkenny of the Department of Education.

The suggested building designs reflect a concern for the younger immature boy. Generally the masonry walls and heavy timber construction is similar to that of the existing ranch buildings.

DESCRIPTION OF THE VARIOUS ITEMS:

ITEM 1 ADMINISTRATION, MESS HALL, ETC.:

Provides a combination of functions as follows:

Main Floor Level: Dining room, cafeteria line, kitchen storage and laundry facility

Upper Floor Level: Administration offices, counseling rooms, meeting room, living quarters for at least four supervisors.

Lower Level: Approximately 1600 sq. ft. for the maintenance man and equipment.

ITEM 2 CLASSROOMS

The program will be based on a full school day with a maximum of 15 pupils per classroom. In addition to eight regular classrooms, there will be special areas such as a reading laboratory, a crafts room, library, teachers' community room, toilets, storerooms, etc. The downhill side of the building on the ground level is designed to be a carport to augment the camp parking area.

ITEM 3 DORMITORIES

Because of the control problems generated by younger boys, the dormitory buildings will house a maximun of 50 each. In addition to the usual dormitory function, there will be 'living areas' to simulate the 'home' atmosphere - i.e., an area for more or less quiet recreation, reading, games, TV, etc., and an area for more vigorous activity; the latter adjoining the shower area.

ITEM 4 INDOOR PLAY AREA

A gymnasium type building for physical education program as well as general recreation in inclement weather. There will be a ground floor under portion of this building on the downhill side where field toilets and general storage will be accommodated.

DESCRIPTION OF VARIOUS ITEMS (Cont'd)

ITEM 5 INCINERATOR

An incinerator to dispose of garbage and waste materials is located at the edge of the Ranch, with a disposal rate of 300 lbs. per minute.

ITEM 6 SEWAGE TREATMENT PLANT

A 'package' unit similar to Chicago Pump Co. design unit SL-103 with a capacity of 15 to 20,000 gallons per day.

ITEM 7 PAVED PLAY AREA with usual games, volleyball, basketball, etc.

ITEM 8 WATER TANK - 40,000 gallons, with chlorinator, housing, etc.

ITEM 9 VISITORS' PARKING AREA: To accommodate 25 cars. Basically a facility for Sunday visitors, families, etc.

COST ESTIMATES

It is suggested that the project proceed in phases as follows:

PHASE I SITE PREPARATION AND UTILITIES

PHASE II BUILDING CONSTRUCTION

PHASE III MISCELLANEOUS

ESTIMATE FOR JUNIOR BOYS' SCHOOL

PHASE I

1. Access Road		$ 27,000.00
2. Utilities:		
a. Electric Service	$ 5,000	
b. Domestic Water System	24,600	
c. Fire Fighting Water System	11,000	
d. Sewer Systems & Drainage	6,500	
e. Sewage Treatment Plant and Pond	40,000	
f. General Lighting for Road, Parking Area & Play yard	5,000	

ESTIMATE FOR JUNIOR BOYS' SCHOOL (Cont'd)

	g. Incinerator	6,000	
	h. Butane gas tanks and supply system	6,000	
			$ 104,100.00
3.	Site Preparation:		
	a. General cutting, filling and grading	6,000	
	b. Concrete work, retaining walls, etc	12,000	
	c. Paving (Yard and perimeter roads)	27,000	
			$ 45,000.00
	Subtotal		$ 176,100.00
PHASE II			
1.	Administration Building and Mess Hall 11,600 square feet, Type III construction @ $20.00 per square foot = $232,000 and $18,000 equipment		250,000.00
2.	Classroom Building, 10,000 sq. ft., Type III construction @ $20.00 per square foot		200,000.00
3.	Dormitory, 5,000 square feet, Type III construction (two buildings) @ $20.00 per square foot = $200,000; beds and furnishings = $5,000		205,000.00
4.	Indoor Play Area, 8,000 square feet, Type III construction @ $20.00 per sq. ft.		160,000.00
5.	Automatic Fire Sprinkler Systems for all buildings		16,500.00
	Subtotal		$ 831,500.00
PHASE III			
1.	Parking Area (road side)		$ 12,500.00
2.	Covered Walk for Quadrangle		20,000.00
	Subtotal		$ 32,500.00
	TOTAL		$1,040,100.00

ESTIMATE FOR JUNIOR BOYS' SCHOOL (Cont'd)

Drawings and specifications	72,807.00
Borings and surveys	10,000.00
Inspection	20,000.00
Contingency	75,000.00
	$1,217.907.00

VARIABLES AFFECTING THE PROPOSED BOND ISSUE

This estimate is based on probable costs up to the Fall of 1965. The increase per year is predicted to be $54,000. If actual construction of buildings did not start until, say July 1966, the probable cost would be increased by $40,000.

EQUIPMENT

The above figures include certain fixed equipment, e.g., kitchen equipment, built-in furniture in dormitories, etc., but no equipment that would not normally be a part of a construction contract.

Equipment, including such items as a bus, to haul the younger children safely (present ranch boys ride in a large truck), desks, furniture, supplies, tools, mechanical equipment for maintaining a ranch-like facility should be provided within the requested Bond Funds.

Costs of equipping a facility of this size is estimated to be approximately $60,000. (Some saving might result by joint usage of farm equipment.)

AMOUNT OF BOND ISSUE

In consideration of these variables, it was recommended that the amount of the Bond Issue be set at $1,300,000.00.

IV. 1964 Recreation Park Department Bond Issue ($9,506,000.00)

The 1964 Recreation Park Bond Issue provides for the following:

1.	Golden Gate Park Irrigation	$1,500,000.00
2.	Golden Gate Park Revitalization	1,310,000.00
3.	Zoological Garden Expansion	1,500,000.00
4.	Mission Swimming Pool	874,000.00
5.	Sunset Swimming Pool	804,540.00

6.	South Park	100,000.00
7.	Camp Mather	420,000.00
8.	McLaren Park	2,500,000.00
9.	Balboa Stadium Soccer Lights	110,000.00
10.	Chinese Recreation Center	55,000.00
11.	Chinese Playground	138,000.00
12.	Playground Lighting	195,000.00
	Total	$9,506,000.00

If approved, work will start in the Spring of 1965, and will be completed five years later, early in 1970.

PROPOSED BOND ISSUES

I. Public Welfare Building $3,545,000.00

At the request of the Director of Public Welfare the Bureau prepared an estimate for a new public welfare building during the past fiscal year. This new building of 100,000 sq. ft. area, is intended to house all of the scattered facilities and personnel of the Department. The bond issue was not approved, however, in the elections of November 1961 and June 1962 although it may be presented to the electorate at a later date.

The estimate is as follows:

1.	Construction	$2,270,000.00	
2.	Plans and specifications	203,000.00	
3.	Inflation	300,000.00	
4.	Equipment	170,000.00	
5.	Property	602,000.00	
		Total	$3,545,000.00

II. Civil Courts Building and Remodeling of City Hall $22,150,000.00

During the spring of 1957, the Bureau working in close cooperation with the architects for the Civic Center Development Plan, the advocates of a new courts building, and the Municipal Conference, prepared estimates for this proposed work. The bond issue is based on the reports of the Architects and Engineers for the San Francisco Civic Center Development Plan, dated May

7, 1957. In their survey of existing conditions at the Civic Center, the consultants found that:

> "Facilities which are now provided in the Civic Center have become over-crowded requiring the use of temporary structures and rental properties. In many cases, offices are scattered and no provision for expansion is available. The present permanent spaces have become largely outmoded. It is essential that additional space be provided and that existing space be rehabilitated to provide efficient up-to-date accommodations that are suitable for the functions to be housed in them."

As a solution to the space problems, the consultants recommended:

1. The construction of a new Civic Courts Building on Marshall Square to house the Municipal and Superior Courts, and all their attendant facilities, at an estimated cost of $16,207,254.

2. The remodeling of the City Hall to provide office space for the Mayor, Chief Administrative Officer, Board of Supervisors, and the majority of the City and County Departments at an estimated cost of $7,918,462.

3. The future construction of an Annex Office Building across McAllister Street from City Hall, in the block bounded by McAllister, Van Ness, Polk, and Redwood Streets. This building would be needed in the future, but since it was not urgently required at present its construction should be deferred until a later date.

The total amount of the bond issue recommended by the consultants is as follows:

1. New Civil Courts Building	$16,207,254.00
2. Remodeling of City Hall	7,918,462.00
Total	$24,125,716.00

This amount was later modified in conference with interested citizens and public officials by the reduction of facilities and space as follows:

1. New Civil Courts Building	$14,379,450.00
2. Remodeling of City Hall	7,770,550.00
Total	$22,150,000.00

The bond issue was approved by the Mayor's Bond Screening Committee on June 3, 1957, the Finance Committee on June 5, 1957 and by the Board of Supervisors on June 10, 1957. The bond issue was defeated in the November 1958 and 1959 elections by narrow margins. It will possibly be revived at a later date, after other facilities which are more urgently needed have been provided.

PERSONNEL

The total permanent allowance of personnel in the Bureau is 62, but 7 permanent positions were not filled. Because of the lack of lists and the great amount of school vacation jobs this summer, it was necessary to engage 12 temporary employees. The total employees as of June 30, 1964 were 67.

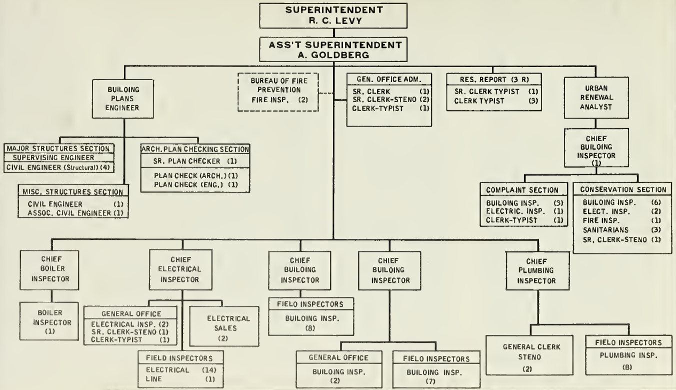
	30 June 1963		30 June 1964		Change	
	Perm.	Temp.	Perm.	Temp.	Perm.	Temp.
City Architect - 5124	1	0	1	0	0	0
Ass't City Arch. - 5122	1	0	1	0	0	0
Senior Architects - 5270	3	0	3	0	0	0
Architects - F-108	6	0	6	2	0	+2
Sr. Arch. Draftsmen - 5338	10	0	10	0	0	0
Arch. Draftsmen - 5336	8	0	8	0	0	0
Jr. Arch. Draftsman - 5334	0	0	1	0	+1	0
Jr. Civil Draftsman - 5360	1	0	1	0	0	0
Jr. Clerk - 1402	1	0	1	0	0	0
General Clerk - B-222	1	0	1	0	0	0
Sr. Clerk - B-228	1	0	1	0	0	0
Gen. Clerk Steno. - B-408	4	0	4	0	0	0
Gen. Clerk Typists- B-512	4	0	4	0	0	0
Chief Bldg. Inspector - 6258	1	0	1	0	0	0
Bldg. Inspector - 6254	12	5	0	10	0	+5
Total	54	5	55	12	+1	+7

Total Personnel 59

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS

ORGANIZATION CHART
BUREAU OF BUILDING INSPECTION

FISCAL YEAR 1963–64



BUREAU OF BUILDING INSPECTION

Robert C. Levy, Superintendent

The functions and organization of the Bureau of Building Inspection have been covered in detail in past reports, and the organization is indicated on the Organization Chart in this report. For details of the Bureau operation please refer to the reports of the fiscal year 1958-1959.

Briefly, the function of the Bureau is to insure compliance with the City Building, Housing, Plumbing and Electrical Codes, the State Housing Act, the State General Safety Orders, as well as other laws.

The Bureau accomplishes the function by means of review of plans, and the inspection of construction, alteration and installation involving structural, electrical, plumbing, and certain mechanical work throughout the City. In addition, it inspects existing buildings and structures to obtain their compliance with the applicable laws. The Bureau also proposes new legislation affecting buildings and structures and analyzes and reports on legislation proposed by other departments and by the State.

The activities of the Bureau of Building Inspection during this fiscal year can be categorized under the following headings:

A. Bureau operations and administration

B. Code activities

C. National activities in area of fire testing

D. Urban Renewal

E. Appellate

The following will discuss our activities in these categories with regard to specific work and related problems.

A. Bureau operations and administration.

1. The 1963-64 fiscal year represented the largest dollar volume and the greatest number of permits since the 1906 earthquake. It represented the third consecutive year of record breaking building activity in the City. The general increases covered all types of construction, but the major activity was in high-rise

apartment buildings and office structures. As a result of this increase in activity, there has resulted an increased pressure on the Bureau due to the delays attendant to plan checking and permit processing.

2. In order to meet the increasing work load represented by the record setting volume, additional personnel were requested in this year's budget as in several previous years. However, said requests were denied as were supplemental requests later in the year. As a result, the plan checking backlog of new construction averaged about six weeks or more at the close of the fiscal year. In addition to increased dollar volume with the attendant demands upon the building inspectors' services, the inspection activities with regard to apartment house and hotel inspections and their Permits of Occupancies, continued to add workload to the present staff, and there was a backlog of approximately 800 permit applications at the close of the fiscal year.

3. Arthur D. Little-Community Renewal Program Study. In the face of the problems of enforcement overlays and permit delays, there has been recognized by all a certain degree of duplication in the inspection functions of the Fire Department, the Department of Public Health, and the Bureau of Building Inspection. In order to achieve a more efficient, as well as a more economical service, by the City, the initial phase of the one million dollar Community Renewal Program being prepared by the Arthur D. Little consulting firm was to investigate the present City functions of the several agencies and to recommend changes that would eliminate the overlap wherever practicable, and to assign to the various agencies the enforcement most properly done by them. The initial phases of this report were released in January, 1964, in which reorganization of this Bureau was recommended so as to include in its function the total inspection of construction in new and existing buildings, and to effect the removal of certain of the enforcement requirements presently handled by the Fire Department and the Department of Public Health. A later report by the consultant will go further into the actual number of persons, affected by these recommendations in each of the several agencies, that should be transferred in order to provide the necessary personnel in the reorganized Bureau of Building Inspection.

4. In order to reduce as much as possible, within the present framework of departmental organization, delays in permit processing within the Bureau, the Chief Administrative Officer, who has under his jurisdiction both the Department of Public Works and the Department of Public Health, recommended certain internal changes in the processing of plans involving the Department of Pub-

lic Health and the Bureau of Engineering. They transferred their review of plan function to the Bureau of Building Inspection, thereby saving the time in transporting plans, as well as eliminating certain overlaps in the review of plans between the Bureau and the Health Department. In addition, certain of the review functions of the Department of City Planning were transferred so that plans of work in which City Planning would not be concerned or which have no problems with regard to zoning, would be reviewed by the Bureau and not referred to City Planning. These have affected some improvements in the plan checking time; however, the gains have not kept pace with the large growth in both dollar volume and the number of plans.

5. As indicated in Item 2 above, one of the areas of activity of this Bureau relates to apartment houses and hotels which presently are inspected by the Department of Public Health and a similar series of activities by the Fire Department with regard to all public assembly occupancies and, to some degree, apartment houses and hotels as well. These two departments prepare lists of deficiencies or "check lists" citing the areas they believe to be in violation of the code. The building Inspector, as well as the Plumbing and Electrical Inspectors of this Bureau, then investigate each such check list and prepare a list of requirements in order to bring the building into code compliance. This list is prepared after the owner has filed for a permit to bring the structure into code compliance so that either the Department of Public Health or the Fire Department would then issue the necessary Permit to Operate to the owner. There are thousands of buildings involved in this program and the resultant inspection workload is very heavy. The list of deficiencies prepared by this Bureau is the consolidated list of all City agencies, and the owner is thereby subject to one enforcement agency, and thus is not "harassed" by multiple enforcing groups.

B. Codes

1. Building Code. Revisions to the Building Code were submitted to the Board of Supervisors in November, after review by industry and professional groups. These amendments were the second set submitted since the 1956 Code was adopted. The revisions included the adoption of the AISC structural specifications and the ACI concrete code by reference as well as increased the allowable carrying capacity for certain pilings. Other changes included administrative provisions covering the extent of alteration work that must be done in accordance with the present code. In all, there were approximately 100 code changes recommended. It is expected that the proposed legislation will be adopted at an early date.

2. Plumbing Code. Initial rewriting of the Plumbing Code was undertaken and the first two of six transmittals of the code were sent to industry. The proposed new code will generally follow the format of the Western Plumbing Officials model code with modifications necessary for a highly concentrated populace. It is anticipated that this code will take at least one more year in preparation.

3. Fire Code. The Fire Department has, over the past several years, been preparing a complete revision to its Fire Code. Since 1960, this Bureau has been reviewing the contents of the proposed new code in order to eliminate and avoid areas of conflict, overlap and duplication. Unfortunately, an impasse was reached in 1962 in these negotiations for modifications of the code. The matter was referred by the Police Committee of the Board of Supervisors to the Chamber of Commerce for them to act as a mediator of both the intracity agencies as well as those of industry and the professional organizations. This was done and the Chamber of Commerce has done an excellent job having reconciled the vast majority of the differences. There still remains the matter of retroactivity and provisions which would conflict with the enforcement procedures of this Bureau. However, it is anticipated that upon the commencement of new committee hearings by the Board of Supervisors, these last two areas of difference may be resolved.

4. Electrical Code. A budget request for funds to employ a consulting electrical engineer to aid in the preparation was deleted in the 1964-1965 budget, as a result of the offer of the electrical industry to assume all costs for employment of necessary engineering aid. It is expected that this Bureau will also participate actively in its preparation, as well as review procedures. It is hoped this work will be well under way by the end of the next fiscal year.

A. In July, 1963, the "Uniform Interpretation Committee for the San Francisco Electrical Code" was formed by the electrical industry and related groups. It consists of members of the electrical contractors, associates, the trust fund, the union, the Pacific Gas and Electric Company, and electrical engineering groups and meets once each month. Both the Superintendent and the Chief Electrical Inspector participate in all meetings, although not officially members of the group. The purpose of the group is to consider problems regarding the interpretation of the electrical code, discuss it, and recommend an interpretation of the code regarding the problem involved. The Bureau participates in the discussion, and, of course, need not follow the recommendation of the committee. Upon reaching a decision, the Bureau then publishes a bulletin to its inspectors and the industry regarding the matter.

This committee has served the purpose of establishing closer liaison between the City and all segments of the industry as well as a searching discussion of experts regarding technical matters. It has been a substantial contribution to our electrical code enforcement, and will undoubtedly assist in the future our rewriting of the Electrical Code.

5. Housing Code. The Housing Code contains provisions for the requirement of a sprinkler system for all garbage and trash chutes, and rooms. In the amendments to the Building Code of 1962, an exemption was provided for single and two family dwellings covering these same areas. There, therefore, exists the conflict between the Building Code, which governs new construction and the Housing Code which, being retroactive, covers both new and existing structures. Recommendations therefore, were sent to the Board of Supervisors to amend the Housing Code so as to be consistent with the Building Code exemption. Hearings were held at which the Fire Department opposed this deletion and no action was taken in this matter by the end of the fiscal year. The Codes, therefore, remain in conflict. It is hoped this matter will be reconciled at an early date.

6. Geneva Terrace Fire. In February, 1964, a tragic fire in a one family two-story frame building claimed four lives with three survivors. The building had 1/4" Philippine Mahogany Plywood bonded with urea glue on the first story. The second story contained four bedrooms with gypsum wallboard walls. The intensity of the fire and its rapid spread was sufficiently unusual to warrant intensive investigation and possible code change recommendations.

The Fire Department proposed that single family dwellings be provided with two exists on every floor; that interior finish regulations apply to single and two family dwellings;and that the stairways in the buildings be enclosed. All of these requirements were to be retroactive.

Recommendations of this Bureau were that thin combustible materials (less than 1/2" thickness) should be backed by gypsum wallboard or other similar incombustible material. In addition, one window in each bedroom should be sufficiently large and located not more than 3 feet off the floor so that exiting through the window would be facilitated. Hearings were held and the retroactive aspect of the Fire Department recommendations were dropped as being impractical and excessive. Further hearings modified the two exit requests, and the matter was sent to the various industry and professional groups for their comments before returning the matter to the Board of Supervisors. It is expected that hearings will be held in August.

7. Alaskan Earthquake. In April, 1964, there was a severe earthquake in Alaska, resulting in large scale damage, especially in Anchorage and its environs. Damage in general was caused by two phenomena: (1) The subsidance of the ground, and damage from this is impossible to protect against; and (2) damage caused by seismic motion which can be protected against. A large group of structural engineers from California visited the area to study the damage. The Structural Engineers Association of California is now studying the Anchorage building plans, the damage to the buildings, and the present seismic codes. This study will probably take some time to complete, but upon its completion there may be revisions required to our codes regarding earthquake provisions.

8. State Legislation. The Bureau has continued its activity with regard to the State Legislature and the various State agencies in order to protect the local autonomy of the City and County of San Francisco in the areas of building and housing codes and their enforcement. To this end, the State Attorney General issued an Opinion which indicated that a local legislative body may declare that the codes in their areas, together with the local conditions, are equal to or more restrictive than the corresponding State codes and that, therefore, the local codes would pertain.

In August, such a resolution will be forwarded to the Board of Supervisors for their action. The resolution was transmitted to industry and professional groups for their comments and the initial response indicates strong support of the resolution.

This Bureau is concerned with the increasing scope of the State activities in the areas of Housing and Building, and through its activities in the California Chapter of the International Conference of Building Officials, will continue to define local government and retain for local government the maximum degree of autonomy. The Superintendent is currently the First-Vice-President of the California Chapter of the International Conference of Building Officials.

C. National Activities in Area of Fire Testing

1. Underwriters Laboratory and A. S. T. M. The

Bureau has adopted criteria for the review of fire tests on steel beams of use of limiting the temperature to 1000° F. average, 1200° maximum. As a member of Underwriters' Laboratories Fire Council, these criteria were sent to them for their consideration and incorporation in their test reports. We have been in contact with their staff in the development of their test criteria procedures to incorporate temperature criteria. In addition, a request was made of the American Society of Testing Materials, Fire Test Committee E-5, which is concerned with fire test standards, that they modify the fire test procedure to incorporate mandatory temperature criteria on all steel structural members.

The Bureau's position is based upon the present procedure of ignoring the steel temperatures in a fire test, providing the assembly is fully loaded, even though the design condition prior to the test changes drastically during the test, and are, therefore, no longer applicable. The City of Los Angeles and the State Fire Marshall of California have separately and independently reached the same general conclusion and are operating similarly in this area.

During the year the Superintendent was appointed to the E-5 Committee of the American Society of Testing Materials, which committee deals with fire testing. It is expected through interchange of views with other members of the committee to both increase our knowledge, and also to have some effect on modifying certain of the fire test procedure. This whole field of fire testing and protection of the structure and its elements is very important to San Francisco with its high-rise buildings set closely together and its high population density.

2. Smoke, Board of Examiners. The Board of Examiners of this department has been involved over the past two years in the matter of regulation of smoke produced by the burning of interior finishes. As a result of the action taken by the Board in 1961-1962, tests were conducted by the Society of Plastics Industry and the Manufacturing Chemists Association at UL to develop additional data with regard to the problem of smoke and visibility. The test results were available in January to the Board, and meetings were held in May and June on this report. Representatives of the national testing agencies in the country and the plastics industry and others attended these meetings. At the same time, legislation to incorporate smoke criteria was proposed for incorporation in the Building Code. As a result, a revision of the end points to be used was adopted by the Board of Examiners. These new end points necessitated the withdrawal of the proposed code amendments so that the new end points could be included therein and reviewed by all interested parties and by the Board of Supervisors for incorporation in the Code. These

end points represent the first definite regulation by a major city for smoke emission in building construction. Many other jurisdictions have an increasing interest in the matter, and it is expected that in the next few years they will adopt similar legislation.

3. Damageability of Fireproofing. With the advent of new methods of fireproofing, primarily by spray application directly on steel beams of asbestos fiber materials, gypsum-based and vermiculite-based cementitious materials, the problem of "ease of damageability" during actual building construction became one of concern to this Bureau. Two major instances of difficulty were found in past years, and resulted in the suspension of certain approvals and investigation by this Bureau of methods of evaluating "ease of damageability".

A testing device was developed and evaluated by this Bureau, and fireproofing materials manufacturers were requested to furnish samples of their materials for testing in the device. After comprehensive evaluation of the materials by this Bureau, the Board of Examiners was asked to remove approvals it had granted to these types of materials because they were easily damaged, as indicated by the testing device and in actual field practice. Several hearings by the Board were held with representatives of the manufacturers. The Board finally recommended, in the Fall of 1963, to cancel these approvals. Similar action was taken by this Bureau with regard to approvals it had given. A formal request was also made of the ASTM that they develop a method of testing for this "ease of damageability", not necessarily using the device developed by this Bureau. This matter was referred by ASTM to their testing committee and is awaiting consideration.

4. Fire Council - Underwriters' Laboratories. The Superintendent is a member of the Underwriters' Laboratories Fire Council. He has participated in the review of scores of fire tests. In addition, exchange of data and meetings with staff members of the Underwriters' Laboratories have resulted in making available to the Bureau large amounts of information for use in determining the acceptability of products in this City. The cooperation of UL has been excellent in this regard and represents a very valuable technical assistance to the Bureau.

D. Urban Renewal

1. The Urban Renewal Division, Conservation Section, has been in operation in conservation areas for 4-1/2 years. These areas generally have good housing and good neighborhoods but are showing evidence of deterioration and the purpose of the

conservation program is to stop this deterioration and prevent the development and spread of blight. Public meetings are held prior to commencing inspections. All buildings in these areas are inspected and reports made to the owners.

Conservation Areas are located in Pacific Heights, Visitacion Valley, Glen Park, West Nob Hill and Great Highway, and contain 7391 buildings with 18,387 dwelling units and 37,000 persons. A total of 4126 of these structures have already been inspected. The following is a summary of our activities in these conservation areas through June 30, 1964:

Area	Date Designated	Total Bldgs.	Bldgs. Inspected	Violations Detected*	Buildings Brought Into Code Compliance**
Pac. Hgts. (Areas 1 – 5)	Nov. 1959 Apr. 1961	1850	1688	1432	816
Vis. Valley	Oct. 1960	2135	1818	1365	936
Glen Park	Nov. 1962	1214	198	144	6
West Nob Hill	Nov. 1962	949	355	323	123
Great Hiway	Nov. 1962	1255	142	108	57
Total Bldgs.		7391	4201	3143	1938
Total Dwelling Units (Est.)		18387	15182	11493	5150

* Including permit and non-permit code violations.

** Does not include bldgs. found in compliance at time of inspection.

A. Alteration permits issued in these areas during the past year averaged about $160,000 a month for a total of $1,915,000. It is estimated that 55% of the $4,526,568 total of worth of permit work in all areas was above Code requirements.

B. In Pacific Heights the permit work was ten (10) times the monthly average value of work done in the 5 years prior to designation. Private construction of new buildings since the inception of the Conservation Program is valued at $17,656,376 and has added 748 new dwelling units to the area.

C. In West Nob Hill, alteration permits issued since the program began there 21 months ago average $57,000 per month, which is six (6) times the average value in the five years preceding designation of the area.

D. Conservation Area One (Pacific Heights), is to be designated by the Chief Administrative Officer on July 1, 1964, after 4-1/2 years, during which time approximately $500,000 was spent by the property owners to improve the properties within the area. Only 45% of this amount was required to comply with Codes, averaging $160 per dwelling unit. The exterior appearance of the area was improved by the removal of overhead wires and the planting of trees along Sacramento Street.

2. The Complaint Section of the Urban Renewal Division of the Bureau performs building inspections for complaints received by the Department of Public Works. A total of 144 DPW new complaints were received during the year; 196 previous DPW complaint cases were closed; 422 DPW complaint cases still remain active. In addition to DPW Complaints, the Complaint Section performs inspections for condemnations for the Department of Public Health. A total of 36 DPH requests for inspections were received this year; 38 cases were closed; 219 DPH complaints remain active.

Another service performed by the Complaint Section is the preparation and processing of physical inspections requested by the Report of Residential Records Division of the Bureau. Eleven requests were received and reports prepared; seven cases were closed, and thirty-four reports remain active.

3. Redevelopment Agency Work. During the survey and planning stage of the South-of-Market Street Project (Yerba Buena Project) inspections of buildings within the area were conducted by a Building Inspector from this Division under contract with the Agency. In cooperation with owner participants in Redevelopment Projects, Area A-1, 24 reports were prepared and follow-up inspections are being conducted. In the Diamond Heights Area, 22 reports have been prepared and follow up on these are still being made.

4. Housing Appeals Board. The Urban Renewal Analyst is the Secretary of this Board. During the past year a total of 33 appeals were filed and went before the group from orders of Abatement and/or Condemnation by the Director of Public Works and the Director of Public Health.

E. Appellate.

There are three agencies to which a matter may be appealed by the affected person. In the areas of the Building Code, they are the Board of Examiners and the Board of Permit Appeals. In the area of the Housing Code, there is a Housing Appeals Board and the Board of

Permit Appeals. These are in the direct line of administrative appeal from the rulings of the Superintendent and the Director of Public Works.

Basically, the Board of Examiners is a professional body hearing denial matters involving approvals, methods of construction, and interpretations of the Building Code. The members are registered engineers and architects, nominated by their associations and appointed by the Director. In addition, the Board of Examiners does have the power of variance under the strict proviso that said variance can only be granted where safety is not a factor.

The Board of Permit appeals is a lay body appointed by the Mayor which hears all matters dealing with denials of permits. Each decision by that Board is directed specifically to single permit application.

The Housing Appeals Board hears matters relating to apartment houses and hotel permits and the requirements of the City agencies in order to bring these buildings into compliance with the Housing Code.

The Board of Examiners and the Housing Appeals Board actions, over the several years, have resulted in general support of and overruling of the requirements of this Department. The action of the Board of Permit Appeals, however, by contrast, has been an almost total record of overrule in the cases heard by that Board. In a large number of the cases in which the Board has overruled the Department of Public Works, fire safety was the paramount issue. The Department of Public Works has grave concern over the possible hazardous conditions that may have resulted by the elimination of the needed safety requirements from many of the permit applications.

STATISTICAL SUMMARY
BUILDING INSPECTION DIVISION

Type of Construction	1962-63 No. of Permits	1963-1964 No. of Permits	1962-63 Estimated Cost	1963-1964 Estimated Cost
1A	28	12	$70,884,317	$31,619,251
1B	4	6	5,757,393	17,810,825
2	2	1	1,161,300	127,000
3	39	35	4,872,805	3,513,210
4	32	37	2,508,350	1,751,481
5	1136	919	54,416,770	89,313,096
Alterations	13487	13825	46,272,105	44,863,320
Totals	14728	14835	$185,873,040	$188,998,983

Type 1A - Steel Frame with reinforced concrete walls and floors. Fire-resistive construction.

Type 1B - Built entirely of reinforced concrete. Fire-resistive construction.

Type 2 - Similar to Type 1, but with limitations.

Type 3 - Wood frame floors with exterior walls of masonry. Ordinary masonry construction.

Type 4 - Light incombustible frame construction.

Type 5 - Wood Frame construction.

BUREAU STATISTICS FOR FISCAL YEAR	1962-63	1963-64
Inspections reported by building inspectors	56,354	51,644
Projects remaining on which permits have been issued that have not been reported completed by building inspectors	6,074	6,163
Complaints reported that have been adjusted by building inspectors	3,394	2,564
Inspections reported by boiler inspectors	1,886	1,842
Complaints received and adjusted - Boiler and air tanks	32	216
Complaints and requests for information recorded	200	219
Applications for permits examined and approved by plan checker	1,512	1,317
Miles traveled during the year by vehicles on inspection service	312,470	327,546
Report of Residential Records issued (3R)	Not Reported	7,050
Waivers of 3R reports received	Not Reported	1,469

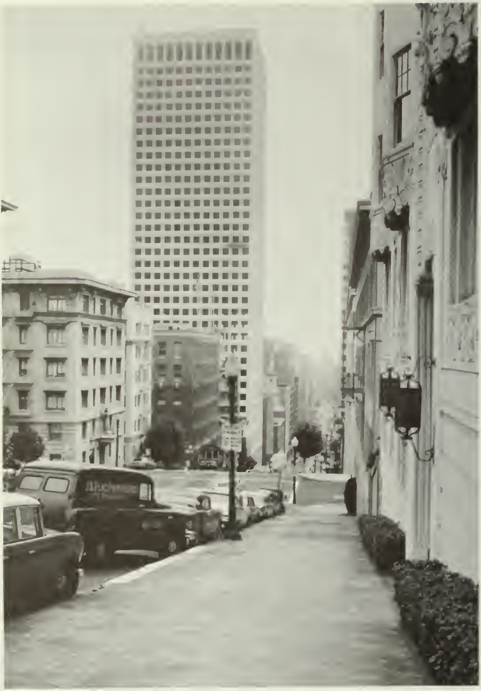
PLUMBING INSPECTION DIVISION	1963-64	1962-63
Plumbing permits issued	4,504	4,285
Sewer repair or replacement permits	260	317
Plumbing installation removals	11	2
Water permits issued	1,384	1,123
Water permits combined with plumbing	3,334	3,355
Gas piping and appliance permits	14,505	15,721
Gas permits on plumbing	5,375	4,923
Gas installation removals	7	0
Plumbing inspections made	15,854	15,268
Water inspections made	3,881	3,904
Water installation removals	11	0
Plumbing complaints investigated	896	923

PLUMBING INSPECTION DIVISION (Cont'd)	1963-64	1962-63
Condemnation Reports	29	42
Gas piping complaints investigated	9	8
Gas appliance complaints investigated	123	101
Plumbing installations completed	5,230	5,129
Gas lines inspected final	4,742	4,462
Gas appliances approved	11,187	11,783
Installations uncovered that were without permit and against which penalties were assessed.	68	

ELECTRICAL INSPECTION DIVISION	1963-64	1962-63
Permits issued, wiring and signs	15,150	13,866
Inspections made	45,047	40,933
Complaints investigated (Found defective)	3,943	3,584
Installations in progress as of June 30, 1964	5,345	5,712
Installations completed	15,261	13,074
Pin ball machine inspections	411	466
Juke box inspections	35	42
Inspections for Nursing and Boarding Homes for ambulatory patients	162	166
Night Club inspections	121	128
Spray Booth inspections	22	20

Martin Luther Tower (The Carillon)
Ellis and Gough Streets

Standard Oil Building
First and Market Streets



Hartford Insurance Building
California and Kearny Streets

Eichler Summit
Jones and Green Streets

Laguna Eichler
Laguna and Cleary Court

Broadway Towers
Broadway and Laguna

Golden Gateway
Battery, Drum, Washington and Jackson Streets

ORGANIZATIONAL RELATIONSHIPS
MAINTENANCE, REPAIR & OPERATION
1963 - 1964

DIRECTOR
S. Myron Tatarian

Assistant Director for Maintenance & Operation
Arvid H. Ekenberg

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT
W. B. Jones, Superintendent

FUNCTIONS
1 - Maintain and Repair Sewerage System.
2 - Operate and Maintain 15 Sewage Pump Stations.
3 - Operate and Maintain 3 Sewage Treatment Plants
4 - Control Industrial Waste Discharge to Sewers.
5 - Conduct Air and Water Pollution Surveys.
6 - Provide Advisory Service to other City Departments on Sewage Treatment.

PERSONNEL ALLOWANCE	
(a) Budgeted	222
(b) Non-Budgeted	20
(c) Assigned from other Bureaus and Departments	10
(d) Contract Employees on Hired Trucks	5
TOTAL	257

TOTAL EXPENDITURE	
Budgeted by Bureau	$2,561,654

BUREAU OF BUILDING REPAIR
J. S. Rutherford, Superintendent

FUNCTIONS
1 - Maintain and Repair Certain Public Buildings.
2 - Provide Maintenance and Repair Services and Personnel on an Interdepartmental Basis to other City Agencies.
3 - Provide Operating and Custodial Personnel in Certain Public Buildings.
4 - Conduct Engineering-Architectural Surveys and Prepare Reports on Certain Public Buildings.
5 - Paint Street Traffic Striping and Markings on Work Order Basis.
6 - Repair Certain Street Structures and Sidewalks Fronting on City Property.
7 - Maintain Street-Name Signs on Work Order Procedure.

PERSONNEL ALLOWANCE	
(a) Budgeted by Bureau	385
(b) Assigned from Other Bureaus	3
TOTAL	388

TOTAL EXPENDITURE	
Budgeted by Bureau	$3,159,227
Funds from Other Sources	$1,158,347
	$4,317,574

BUREAU OF STREET REPAIR
C. F. McFadden, Superintendent

FUNCTIONS
1 - Maintain and Repair Public Streets.
2 - Operate and Maintain 3 Lift Bridges.
3 - Operate and Maintain Asphalt Plant.
4 - Operate Granite Curb Yard.
5 - Operate and Maintain Broadway Tunnel.
6 - Operate and Maintain Underpasses and Overcrossings.
7 - Maintain and Repair Certain Street Structures.
8 - Perform Work for Other Bureaus and Departments by Work Order.

PERSONNEL ALLOWANCE	
(a) Budgeted	174
(b) Assigned from Other Bureaus	1
(c) Contract Employee on Hired Truck	1
TOTAL	176

TOTAL EXPENDITURE	
Budgeted by Bureau	$2,071,794

BUREAU OF STREET CLEANING AND PLANTING
B. M. Crotty, Superintendent

FUNCTIONS
1 - Clean Public Street Surfaces.
2 - Clean 11 Pedestrian and Vehicular Underground Structures.
3 - Clean 195 Pedestrian Stairways.
4 - Control Weeds on Numerous Public Lands and Properties.
5 - Operate 19th Avenue Garage and Office, Sunset Boulevard Office Storeroom and Shop and Nursery at the Southeast Sewage Treatment Plant.
6 - Maintain 140 Acres of Landscaping and 7100 Street Trees.
7 - Promote and Coordinate Litter Control Programs and Tree Planting Programs Independently and in Cooperation with Various Civic Groups and Committees.
8 - Provide Technical Assistance to Engineers, Architects and Builders in Landscaping and Tree Planting.
9 - Operate Department of Public Works Radio KME 327.
10 - Confiscate, Transport, Inventory, and Store "A" Boards and Other Advertising Matter Illegally Placed on Public Streets and Sidewalks.

PERSONNEL ALLOWANCE	
(a) Budgeted by Bureau	376
(b) Assigned from Other Bureaus	3
TOTAL	379

TOTAL EXPENDITURE	
Budgeted by Bureau	$3,081,226

SUMMARY

Total Personnel Allowance	1,200
Total Expenditures, less reimbursements	$12,032,248

MAINTENANCE AND OPERATION

Arvid H. Ekenberg, Assistant Director of Public Works

GENERAL

The maintenance and operation functions of the Department of Public Works are composed of the four bureaus of Sewer Repair and Sewage Treatment, Street Repair, Street Cleaning and Tree Planting, and Building Repair, with a total of 1,200 employees. Functional and organizational relationships of the various bureaus are indicated in other sections of this report.

Work load of the bureaus increased during the year by the transfer of certain maintenance and operational functions to the Bureaus of Street Cleaning and Tree Planting and Building Repair. Personnel increase for Building Repair was 44, comprised chiefly of operating engineers and building trade mechanics, while the Tree Planting Division had a personnel increase totalling 12, comprised of gardeners and foremen gardeners. Transfer of these duties and responsibilities was from the Health Department institutions, San Francisco General Hospital, Laguna Honda Hospital, and Hassler Health Home, and was primarily for the purpose of achieving greater efficiency through the concentration of maintenance responsibilities in one organization.

New Pipe Storage Area at Army Street Yard

In addition, during the year, a storage area for pipe and related materials used by the Bureau of Sewer Repair was created at 2323 Army Street, thus allowing the previous storage area at 15th and Harrison Streets to be made available for other purposes. An added benefit is the elimination of the previous time consuming trip between the two yards.

PERSONNEL

Personnel allowances, as budgeted by the four bureaus, totalled 1,177. In addition, 17 employees from other bureaus and 6 contract employees on hired trucks are assigned to the Maintenance and Operation Bureaus. This represents an increase of 59 employments over that appropriated for the preceding fiscal year.

EXPENDITURES

Expenditures for Maintenance and Operation Bureaus amounted to $10,873,901 from budgeted appropriations and $1,158,347 from funds received by work order, or a total of $12,032,248. A breakdown of expenditures and per capita costs follows:

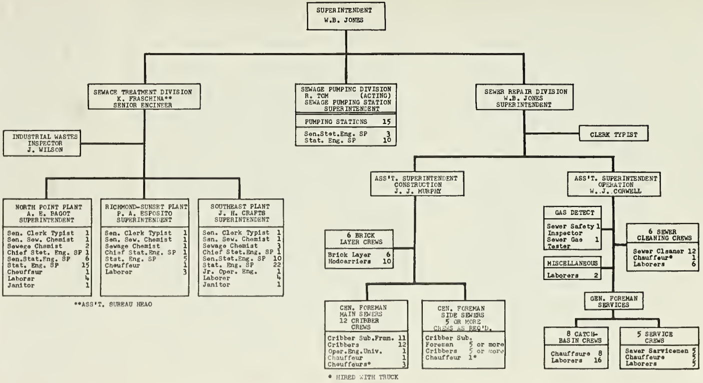
	Total Expenditures	Per Capita Cost (Based on a population of 715,609 recorded by Federal Census of 1960)
Street Repair	$2,071,794	$ 2.90
Sewer Repair & Sewage Treatment	2,561,654	3.58
Building Repair	4,317,574	6.03
Street Cleaning and Planting	3,081,226	4.31
Total	$12,032,248	$16.81

ORGANIZATION CHART

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1964



BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT

W. B. Jones, Superintendent

The Bureau of Sewer Repair and Sewage Treatment is responsible for the maintenance and operation of the City's sewerage system including main sewers and interceptors, pumping stations, treatment plants and outfalls. It is divided into 3 divisions: Sewer Repair, Sewage and Waste Treatment, and Sewage Pumping. The Sewer Repair Division maintains and repairs public sewers and appurtenant structures and services mosquito complaints originating in drainage catchbasins. The Sewage and Waste Treatment Division operates and maintains 3 primary sewage treatment plants, conducts sanitary surveys on shore waters, regulates and controls industrial wastes discharges to sewers and advises other City departments on the maintenance and operations of their sewage treatment facilities. The Sewage Pumping Division operates and maintains 15 sewage pumping stations.

There was no change during the year in the number of personnel. The Sewage and Waste Treatment Division remained at 100, with 14 for Sewage Pumping and 108 for Sewer Repair. Thus the total budgeted employees for the Bureau was 222. These employments were supplemented by one clerk-typist for Sewer Repair and 9 maintenance personnel for Sewage Treatment, all assigned from other bureaus and departments, and 5 chauffeurs hired with their trucks on a contractual basis by Sewer Repair. In addition, the Sewer Repair Division has a varying number of non-budgeted employments (20 are authorized) who perform new construction and repairs in connection with side sewers and who are paid by assessments against affected property owners. Thus there are a maximum of 257 employments under the control of the Bureau. Actually, there are normally from 6 to 10 less than this because of varying side sewer employments which depend upon activity in the building industry.

The accompanying chart shows the organization of the Bureau by major functions and personnel. It also shows the names of those holding administrative positions.

On 11 occasions during the year it became necessary to have emergencies declared to enable the Bureau to cope with some malfunction in the sewerage system. These are usually made necessary when it appears that the correction of the malfunction will cost more than the $2,000 Charter limitation and the urgency of the problem does not allow time for it to be handled by contract procedures. Also, it is usually impossible to estimate the extent of the work until the job is well under way.

Of the 11 emergencies the following are worthy of note: The Mendell Street sewer system north of Fairfax was completely plugged with grease. The relieving of this sewer system required over 4 months and the cost to the City was over $17,000. The cause of the trouble was our inability to enforce the Industrial Wastes ordinance. This Bureau is allowed one employment for this purpose. Over a period of many years efforts have been made to obtain additional help for the purpose of controlling industrial wastes discharges. Instead, the Civil Service Commission saw fit as a result of the Jacobs survey to down grade the one position that we did have. While this is an extreme case it is not isolated. In some cases the City is able to recover damages from the offending industry. In this case, no such recovery is possible because while there are several industrial establishments which are suspected of contributing to the difficulty, it is impossible to develop a clear cut case against any one in particular.

The sludge force main which delivers sludge from the North Point to the Southeast Plant ruptured under a temporary railroad embankment, apparently as a result of settlement caused by the superimposed weight. While this Bureau requested the declaration of the emergency, the actual correction was under the jurisdiction of the City Engineer with assists from various other City Agencies including the Bureau of Sewer Repair and Sewage Treatment.

The property at the northwest corner of 3rd and 23rd Streets formerly occupied by the Tubbs Cordage Company had a sewage pump which for many years pumped the sewage and ground water, not only from the Tubbs Cordage Company but also from the homes in Tennessee Street between this property and 22nd Street. When a new owner acquired the property from Tubbs, he shut down the pump station. The result was the collection of a mixture of ground water and sewage in the area which became a severe public health hazard. An emergency was declared and this Bureau installed a temporary pumping station to handle the sanitary sewage flow. As of June 30 the pump station was still being operated and maintained albeit with difficulty due to excessive vandalism.

The budget expenditures for the fiscal year totaled $2,561,654 of which $1,277,922 was for treatment plants and industrial wastes control, $152,438 was for pumping stations and $1,131,294 was for sewer maintenance and repair. In addition, the Sewer Repair Division expended $192,219 for side sewers paid for by property owners and $5,929 on work orders from other departments.

	Sewage Treatment	Sewage Pumping	Sewer Repair
PERSONAL SERVICES			
Permanent Salaries*	$ 716,666	$104,698	$ 95,188
Overtime*	1,211	297	1,396
Holidays*	20,225	5,176	832
Temporary Salaries*	16,848	5,573	
Wages (Per Diem)	113,526		840,312
Sub-Total	868,476	115,744	937,728
CONTRACTUAL SERVICES			
Power and Gas**	110,585	26,324	
Plant Equipment	67,624	4,876	
Field Equipment	4,124	204	33,827
Sludge Disposal	26,150		
Landscape Maintenance	15,456		
Miscellaneous Services	5,454	1,046	16,737
Hired Trucks			54,053
Sub-Total	229,393	32,450	104,617
MATERIALS AND SUPPLIES			
Replacement Parts	35,208	888	955
Field	450		41,722
Plant	19,809	2,165	
Fuels and Lubricants	2,916	485	13,420
Treatment Chemicals	116,209		
Sub-Total	174,592	3,538	56,097
EQUIPMENT			
New	4,162	706	893
Replacement	1,299		31,959
Sub-Total	5,461	706	32,852
TOTAL	$1,277,922	$152,438	$1,131,294

* For Monthly Employees.

** In Public Utilities Commission Budget.

SEWER REPAIR DIVISION

The Sewer Repair Division cleans, repairs, maintains and makes minor additions to the various components of the sewerage system including main sewers, side sewers and appurtenant structures. The Division also tests for explosive and other gasses which may be found in the sewer system and participates in mosquito abatement as related to catchbasins.

In order to organize the work, the personnel are divided into units or working groups consisting of sewer cleaning units, eductor units, service units, main pipe sewer units, bricklayer units, side sewer units, gas detection unit, material trucks, digging unit and compressor unit. While many of these groups frequently assist each other, the latter three maybe considered almost entirely subsidiary in that their principal function is to assist other units in the performance of their work. A summary of the activities of these working units is to be found in the accompanying tabulation.

SEWER CLEANING

Sewer cleaning units clean main sewers, pumps and tanks at pumping stations and treatment plants, do miscellaneous work in connection with sewers and handle complaints occasioned by storms when service crews cannot handle all calls.

Sewers are normally cleaned by buckets dragged between manholes. Other methods used are rodding of pipe sewers and manual cleaning of large sewers. Many miles of sewers are also cleaned by flushing rather than the more laborious methods.

There are 6 sewer cleaning units, each consisting of 2 sewer cleaners and one laborer equipped with a specially designed truck containing the necessary equipment such as hoses, hand tools, buckets, cable and power hoists.

Routine activities during the year were principally in the North Beach, Richmond and South of Market districts. However, the grease problems in the Fisherman's Wharf area have continued to plague the Bureau and to reduce the manpower available for the routine work. Another factor which is making itself felt is the tide gates at the outfall structures. The number of these gates has greatly increased and their proper operation has assumed importance with the construction of the Fourth Street Pumping Station. It has been found necessary to check and clean every gate after every rain. Even very slight rains will cause trouble with the gates.

EDUCTOR OPERATIONS

An eductor unit consists of a truck mounted Elgin eductor with a gasoline powered pump and tank manned by a chauffeur and 2 laborers. Its principal function is the cleaning of catchbasins, but being a very versatile unit, it is put to many other uses where a source of water is needed or where pumping is required. There are normally 8 eductor units operating with 2 additional machines for standby. Service requirements for these units has increased to the point that there are at practically all times at least 2 in the shop awaiting repairs.

SERVICE UNITS

Service units service complaints from the public and other sources, wet down main and side sewer backfills, flush sluggish or temporarily clogged pipe sewers, establish the necessity for specialized work by other crews and do miscellaneous emergency work.

Each of the 5 crews consists of one sewer serviceman, one chauffeur and one laborer and uses a one-ton truck with a special utility body equipped with hoses, lights, barricades and other tools and equipment. Four of the crews are on regular day work and the fifth unit works evenings from 4 p.m. to midnight. No weekend work is scheduled.

Service crews spent 52.1% of their time on service calls and 47.9% on other work. During the fiscal year a total of 23,123 calls were made, 6,344 on complaints and 16,779 on other work including mosquito abatement.

The following tabulation shows the breakdown of work done by type of work and number and percent of calls:

TYPE OF WORK	Calls			
	Number		Percent	
Side Sewer				
Relieved clogged sewer	2,543		11.0	
Found trouble inside property	840		3.6	
Wet down backfill	109		0.5	
Determine if side sewer exists	832		3.6	
Found side sewer broken	236	4,560	1.0	19.7
Main Sewer				
Found main sewer broken	419		1.8	
Relieved clogged sewer	407		1.8	
Examine condition	1,311		5.6	
Wet down backfill	177	2,314	0.8	10.0
Catchbasins and manholes				
Remove obstruction	320		1.4	
Replace cover	275		1.2	
Silence noisy cover	216		0.9	
Examine condition	497	1,308	2.2	5.7
Miscellaneous				
Service lights and barricades	235		1.0	
Investigate seepage and leaks	328		1.4	
Clean at pump station	175		0.8	
Deliver material to job	33		0.1	
Remove deposits on sidewalk	14		0.1	
Mosquitoes	14,054		60.8	
Not classified	102	14,941	0.4	64.6
Total		23,123		100.0

A comparison of this tabulation with that of the previous year reveals little significant change. It will be noted that there has been a further increase in the mosquito abatement activity. This does not necessarily mean an increase in the number of mosquitoes breeding in the City, but rather an increase in public awareness of our efforts to control the problem.

MAIN PIPE SEWERS

Cribbing crews excavate, lag and backfill main sewer trenches, lay pipe in the 6- and 8-inch sizes, excavate, lag and backfill for structure repairs, cut pavement and do miscellaneous work. When conditions are right these crews frequently are assisted by the digging unit. There are normally 11 cribbing crews each consisting of a cribber and a cribber sub-foreman, although this arrangement is subject to some variation to suit conditions. One of the crews is assigned to the compressor unit and thus spends most of its time cutting pavement for the other crews.

BRICKLAYER WORK

Bricklayer crews repair main brick and concrete sewers, construct and repair manholes and catchbasins, lay sewer pipe and do miscellaneous brickwork when required.

There are two types of bricklayer crews, top crews and underground crews. A top crew consists of a bricklayer and a hodcarrier equipped with a 1½ ton truck. Their functions are to repair catchbasins and manholes, lay pipe in trenches and do miscellaneous brickwork. An underground crew consists of a bricklayer and 2 hodcarriers equipped with a trailer mounted tool box. Their function is the repair of large brick and concrete sewers which can be worked on from inside.

SIDE SEWERS

Side sewer crews excavate, lag and backfill sewer trenches and lay sewer pipe. A cribber and a cribber sub-foreman normally constitute a crew and the number of crews varies with the demand for this type of work which is dependent upon activity in the building industry. Three of the crews are motorized and carry sufficient tools, equipment and materials to complete a job and move without delay. Non-motorized crews are equipped with trailer-mounted tool boxes and must be moved by the hired trucks. Since side sewers belong to the fronting property owners, all side sewer construction and repair is at the property owner's expense. All such work is done by this bureau except where side sewer construction is included with main sewer construction under public contract.

GAS DETECTION

The primary function of the gas detection unit is to conduct a continuing City-wide testing and inspection survey of the sewerage system and to supervise the use of gas detection equipment by underground workers. Tests for explosive and toxic gases are made at sewer manholes and at special locations such as pumping stations and sewage treatment plants. The gas most frequently detected is methane which usually results from leakage in gas mains and services.

The Gas Detection Unit also assists actively in the maintenance of safety standards in connection with all work in the Sewer Repair Division.

The unit is also in charge of the photographing of the interior of sewers. During the year, 17,381 feet of main sewer were photographed. The photographs have proven invaluable in establishing the condition of sewers.

MATERIAL TRUCKS

Five trucks together with their drivers are hired on a contractual basis to assist in the work of the Division. These trucks haul materials and equipment to jobs, remove waste material to dumps and move non-motorized units from one location to another. One of these trucks is assigned the duty of visiting all jobs on Saturdays, Sundays and holidays and seeing that all lamps and barricades are in proper order.

DIGGING UNIT

This unit consists of a combination front-end loader and back-hoe which is manned by an operating engineer, universal. This unit assists in any excavation work where the danger of damage to other utilities is not excessive.

COMPRESSOR UNIT

The compressor unit consists of a truck mounted compressor together with its tools manned by one cribber, one cribber sub-foreman and a chauffeur. It is used to assist other groups, principally main sewer crews, in opening streets for excavation.

WORK AND COST DISTRIBUTION - SEWER REPAIR DIVISION

Work Unit		Per Cent		Totals				Unit Cost
1	Sewer Cleaning	92.5	Cleaning Sewers	$123867		722733	Lin. Ft. Cleaned	.17
		7.5	Other Work	10080	$133947			
2	Eductor Operations	64.4	Cleaning Catchbasins	103126				
		35.6	Other Work	56899	160025	14846	Basins Cleaned	6.95
3	Services	52.1	Servicing Complaints	67649		6344	Complaints	10.66
		47.9	Other Work	62160	129809			
4	Main Pipe Sewer Repairs	100.0	Repairing Pipe Sewers	229944	229944	7282	Lin. Ft. at 440 Locations	31.58
5	Brickwork	68.3	Repairing Brick Sewers	90815		16527	Lin. Ft.	5.50
		3.8	Building Catchbasins	5076		6	Catchbasins Built	846.07
		6.4	Building Manholes	8476		11	Manholes Built	770.58
		10.3	Repairing Catchbasins	13729		475	Catchbasins Repaired	28.90
		11.0	Repairing Manholes	14710		466	Manholes Repaired	31.57
		0.2	Repairing Concrete Sewers	199	133005	35	Lin. Ft.	5.67
6	Side Sewer Work		Installations	123791		322	Installations	384.44
			Repairs	51085		161	Repairs	317.30
			Connections	2147	177023	36	Connections	59.64
7	Gas Detection	29.1	Testing Manholes	3911		2882	Manholes Tested	1.35
		70.9	Other Work	9513	13424			
8	Work Orders				5929		Not Applicable	
9	Miscellaneous				39790		Not Applicable	
	Total Not Including Work Unit 6				852738			
	Total For Work Unit 6				177023			
	GRAND TOTAL				$1029761			

NOTE: The costs tabulated here do not include overhead or other indirect charges.

SEWAGE AND WASTE TREATMENT DIVISION

GENERAL

The Sewage and Waste Treatment Division operates the North Point, Richmond-Sunset and Southeast Sewage Treatment Plants, controls discharge of industrial wastes, and gives advice on operation of sewage treatment facilities under jurisdiction of other City Departments.

The Bureau of Engineering designs capital improvements. Major repairs and maintenance requiring services of specialized crafts are done by other Department bureaus and the Purchaser's shops. The Bureau of Street Cleaning and Planting maintains landscaping.

The three plants operated continuously during the year except for limited shutdowns for repairs. Flow to the North Point plant increased 3.9 million gallons daily in December 1963 when the Brannan to 7th Street interceptors were connected to the 4th Street Pumping Station and another 1.8 million gallons daily on June 12, 1964 when the Jackson and Howard Street interceptors were connected to a temporary pump at the Drumm Street Pumping Station. There remain only small areas on 4th Street south of the Channel and on 20th and 24th Streets near the bay to be connected to the plants to complete the program of intercepting all untreated sewage discharges to the bay.

Gas recirculation systems and external heat exchangers were installed in the two digesters at the Richmond-Sunset plant and work was begun on modification of the fresh water system during the year. The gas recirculation system in the 80-foot digester was placed in operation in January 1964. As a result there has been a marked improvement in digester performance. The 100-foot digester has not been returned to service because the underside of the concrete dome was discovered to be severely eroded when the digester was dewatered to install the gas recirculation system. Repairs to the dome are now in progress.

At the Southeast plant, major contract work for rehabilitating vacuum filters, installing gas recirculation in No. 7 digester, and modifying pretreatment facilities commenced in the Spring of 1964.

SEWAGE TREATMENT METHODS

At each plant sewage is treated to remove oil, grease, floating material, grit and settleable solids. Grit from all plants and screenings from the North Point and Southeast plants are hauled by truck to the garbage fill south of the county line. At the Richmond-Sunset plant screenings are incinerated and sludge is digested in two-stage digestion, elutriated, and dewatered by vacuum filtration. Filter cake is hauled to City parks for use as soil conditioner. Raw sludge from the North Point plant is pumped to the Southeast plant, where it is combined with raw sludge from the Southeast plant and treated by thickening, two-stage digestion, elutriation and vacuum filtration. The filter cake, except for a small portion used in City parks, is hauled under contract to the garbage fill south of the county line for burial.

TREATMENT PLANT OPERATION

The following table summarizes data on flows, material removed, chemicals added and products handled and power and gas purchased for the three plants.

	North Point	Richmond-Sunset	Southeast
Sewage Flow, million gallons			
Total (a)	18,104	6,334	6,739
Avg day	49.5	17.3	18.5
Avg day, dry weather (b)	47.5	17.5	17.9
Max day, wet weather	91.8	22.1(c)	25.1(c)
Max day, dry weather	57.3	19.7	22.6
Max rate, wet weather	108	30 (c)	40 (c)
Max rate, dry weather	75 (d)	30	36 (d)
Screenings, cu ft			
Total	57,631	17,570	38,246
Max day	540	82	244
Per million gallons	3.2	2.8	5.7
Grit, cu ft			
Total	63,507	51,840	53,727
Max day	662	405	513
Per million gallons	3.5	8.2	8.0
Chlorination, lb (e)			
Pre	519,360		
Post	1,160,590	539,870	
Total	1,679,950	539,870	
mg per liter dry weather	14.9	11.4	
Sludge Solids, M lb (dry)			
From sedimentation	21,237 (f)		36,250 (g)
To digesters (h)		5,441	50,082
Filter cake		1,369	11,594 (i)

	North Point	Richmond-Sunset	Southeast
Ferric Chloride			
Total, lb		55,920	603,550 (j)
% filter cake solids		4.08	5.20
Gas Production, M cu ft			
Total		63,500 (k)	258,550
Avg day		173 (k)	706
Power and Gas Purchased			
Power, total M kwh	5,433.6	1,848.0	4,513.2
Power, avg/mo, M kwh	452.8	154.0	376.1
Natural gas, total C cu ft	79,428	47,522	6,529
Natural gas, avg/mo, C cu ft	6,619	3,960	544
Hauling			
Trips, grit & screenings	631		274
Trips, grit & filter cake		808	
Trips, filter cake to parks			51

NOTES:

(a) For 365.9 days North Point, 365.7 days Richmond-Sunset, 363.9 days Southeast.

(b) Excluding days with .01 inch or more rain and dry days following days with .05 inch or more rain.

(c) Flow restricted during storms to avoid overloading grit handling facilities.

(d) Estimated; throttling of head gate obscures true flow.

(e) North Point: prechlorination continuous; postchlorination March through November and during extended dry weather periods in winter months. Richmond-Sunset: postchlorination continuous except during storms and on 5 days of chlorinator malfunctioning.

(f) For 356 days; sludge bypassed to bay 10 days while repairing break in crosstown line.

(g) Includes recirculating load from raw sludge thickening and digested sludge elutriation overflows.

(h) From raw sludge thickening; Richmond-Sunset reduction from 1962-63 due to better control of solids in overflow and more representative sludge sampling.

(i) 16,178 tons (wet basis) hauled under contract to garbage fill at $1.615 per ton and 218 tons (wet basis) used by City.

(j) Includes 5,708 lb Dow polymer used in plant scale experimental filter operation equivalent to approximately 57,100 lb Ferric Chloride.

(k) Estimated; metering system out of order.

COST OF OPERATION

Cost of operation was approximately $1.66 per capita based on an estimated tributary population of 770,000.

MAJOR MAINTENANCE

NORTH POINT PLANT:

Reconstructing two effluent rotating screen water filters.
Renewing piping and valves on chlorine storage tanks.
Renewing lighting systems in Sedimentation and Sludge Control buildings.
Turning chains and renewing flight hangers in main collectors, and renewing cross collector chains in No. 2 and 5 sedimentation tanks.
Renewing ground water relief piping in east lift pump sump.
Repainting west lift pump sump.

RICHMOND-SUNSET PLANT:

Renewing digester gas line between Digester Control and Administration buildings.
Reconditioning screenings incinerator.
Renewing scum line, collecting chain, and flights in No. 1 sedimentation tank and drive shafts and sprockets in No. 4 sedimentation tank.
Reconditioning hydraulic regulating valve control in Sunset sump.
Renewing collecting mechanism in west elutriation tank.
Renewing shaft and bearings in No. 3 sewage lift pump.

SOUTHEAST PLANT:

Renewing collecting chain, return rails, and shaft bearings in No. 2 sedimentation tank.

Renewing collecting chain, return rails, and sprockets in one elutriation tank.
Reconditioning 2 main exhaust fans in Sedimentation buildings.
Repairing guide rollers and ballast tank in gas holder.
Modifying and rebuilding 2 vacuum filter rotary valves and resurfacing No. 4 filter drum.
Repairing concrete in sludge channels and west vent box in Thickening building.
Repainting effluent launders in No. 2 sedimentation tank.

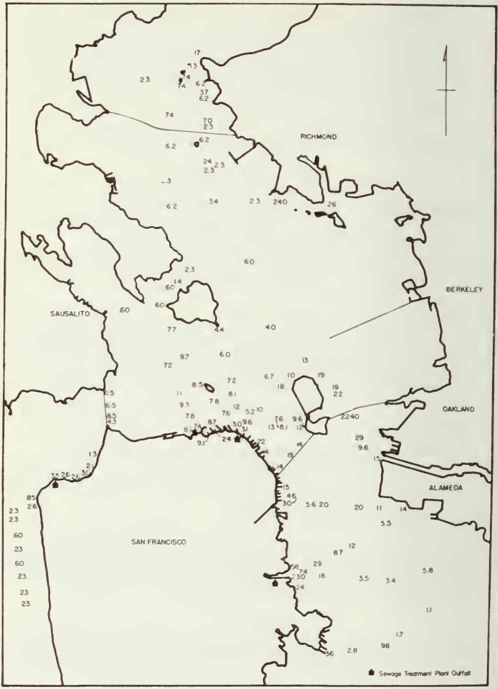
SPECIAL STUDIES AND INVESTIGATION

1. Completed:
    - Effect of preaeration on sedimentation.
    - Use of raw sludge thickening overflow in elutriation.
    - Comparison of synthetic polymers with ferric chloride as coagulants for vacuum filtration and for solids separation in elutriation.
    - Air pollution level at ocean beach.
    - Special sampling program at North Point and Southeast plants in conjunction with comprehensive investigation of San Francisco Bay conducted by University of California for State Water Pollution Control Board.
    - Offshore survey to determine sources of contamination at Aquatic Park.

2. Continuing:
    - Identification of source in leak and seepage complaints.
    - Automatic residual control of chlorination.
    - Receiving water monitoring programs required by Regional Water Pollution Control Board.
    - Sanitary survey of shore waters.

In the offshore survey to determine possible sources of contamination at Aquatic Park, North Point plant personnel made 47 bay cruises between July 2 and December 26, 1963 with a hired boat, in which 1,461 samples were collected at 149 stations.

The accompanying chart shows Coliform densities obtained on 37 cruises in the period July 2 through November 21, during which North Point plant effluent was continuously being chlorinated. The Coliform densities are given as geometric means, the logarithmic averages of observed Most Probable Numbers (MPN), rather than as percent MPN over 10 per milliliter because of the relatively small number of samples at each station. The geometric means are based on an



COLIFORMS, GEOMETRIC MEAN DENSITY PER ML average of 14 samples in the area south of Angel Island between the Golden Gate and Bay Bridges, 10 samples south of the Bay Bridge, 4 samples from Bakers Beach to Seal Rocks, and 1 or 2 samples north of Angel Island and at ocean beach. No conclusions are warranted for the latter two areas because of the limited number of samples.

To meet the State standard of not more than 20 percent MPN over 10 per milliliter, the geometric mean density theoretically must be under 4.7 per milliliter. It is apparent that except in the area immediately adjacent to the North Point plant outfall, the entire central bay fails to meet State standards, and that pollution at Aquatic Park arises from sources other than the North Point plant effluent.

INDUSTRIAL WASTES

Field investigation of industrial and commercial establishments continued during the year. A total of 272 waste samples were collected by the Industrial Waste Inspector and analyzed by the Inspector or the treatment plant laboratories.

During the year industries installed or made operative the following pretreatment units:

Rotating screens in 3 meat packing plants.
Screens and grease separators in 5 meat-waste rendering plants.
"Snag Machines," screens, and settling sumps in 2 tanneries.
Screens and settling basins in two barrel and drum renovating plants.

Two industries, a fish cannery and a copra processing plant, connected industrial waste lines to the City sewer system which eliminated two major sources of pollution in Islais Creek.

Continuing programs include:
Abatement of wastes from paint manufacturing.
Inspection of super markets for garbage grinders. As of June 30, 1964, 142 markets have been inspected.
Test operation of a commercial garbage grinder at the Produce Market.

In addition to the planned programs, 122 complaints of industrial waste violation were investigated.

SEWAGE PUMPING STATIONS

GENERAL

The Sewage Pumping Division operates and maintains 15 sewage pumping stations which are divided into 3 Districts corresponding to the tributary districts of the North Point, Richmond-Sunset and Southeast Sewage Treatment Plants. Their primary purpose is to prevent pollution of recreational beaches and shore waters by intercepting and lifting sanitary flow from low-lying areas of the City into main interceptors leading to the treatment plants.

These stations are generally designed and constructed for capacities sufficient to handle all sanitary sewage plus rainfall equivalent to 0.02 inch per hour. All stations, except Commercial Street are provided with overflow spillways so that rainstorm run-off beyond the capacity of the stations is discharged into the bay or ocean. In the Commercial Street Station, in addition to the electrically operated pumping equipment, a gasoline engine driven pump is provided to handle the added flow in heavy rainstorm and during any electric power failure.

All stations except 3 are unattended. Stationary engineers are on duty from 8 a.m. to midnight at the Commerical Street and Marina Stations. At Sea Cliff No. 2 Station, a stationary engineer is on duty from 8 a.m. to 4 p.m. These shifts are required to assure continued operation and to prevent flooding of basements in the downtown business area and pollution of recreational beaches and shore waters in the Yacht Harbor, Aquatic Park and Phelan Beach areas.

IMPROVEMENTS AND MAINTENANCE

The new Lake Merced Sewage Pumping Station was placed in operation in May 1964 when the construction of the station under Bureau of Engineering contract was sufficiently complete. The station is equipped with two electrically operated variable speed pump units controlled by a pneumatic system for sensing incoming flow. Presently, difficulty is experienced at night when the flow is low. The Bureau of Engineering is studying the possibility of modifying the check valve operation to eliminate this difficulty. When the contract is fully completed, this station will replace Lakeshore and Park Merced Stations located in the same general area.

Also under Bureau of Engineering contract, the influent and effluent valves in Marina Pumping Station were replaced in January 1964.

These valves are hydraulically operated and controlled by pneumatic sensors according to water levels in the sump. This will permit throttling of the influent valve during rainstorm and automatically shut off the station in case of electric power failure.

For the first time since its completion in 1961, the Fourth Street Pumping Station was placed in full scale operation in late November 1963 when all intercepting sewers and diversion structures in the contributing area were finished. The average flow of industrial and commercial sewage handled by this station increased from 0.25 to 4.3 million gallons per day. (3.9 m.g.d. dry weather.)

Major maintenance and repair of pumping equipment is done by personnel from Purchaser's Central Shops. During the fiscal year, the machinists replaced pump casing and bearings in six stations.

Vandalism to station properties is becoming a serious problem. Windows were broken in Sea Cliff No. 2 and Commerical Street Stations. The building exterior was defaced at Fitzgerald Station. However, the worst vandalism occurred at Pinelake where the station was subjected to such acts as defaced building walls, broken locks and smashed door at some time during every month of the year.

In addition to the 15 stations, this division also maintains and operates the emergency pumping unit at Twenty-Second and Tennessee Streets.

SEWAGE PUMPING STATIONS
Expenditures and Cost Data

1963-64

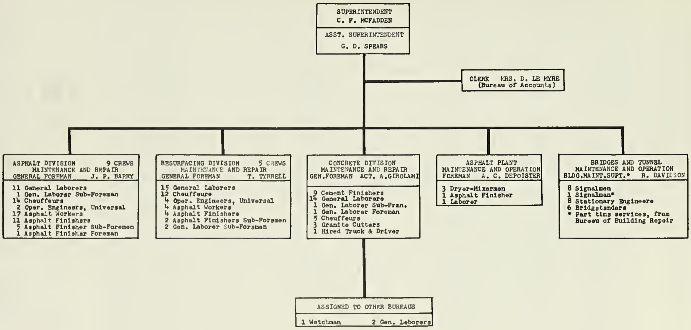
Location	Drainage Area In Acres	Million Gals. Pumped	Salaries	Maintenance	Heat, Light & Power	Materials & Supplies	Equipment	Totals	Cost Per M.G. Pumped
General			$8,075	$379		$412	$75	$8,941	$1.54
Commercial Street	93	313	26,952	150	1,307	596		29,005	92.67
Fitzgerald Avenue	30	64	1,155	47	464	87		1,753	27.39
Fourth Street	138	998	8,621	1,220	3,449	263		13,553	13.58
Fulton Street	82	78	1,055	436	1,044	112		2,607	33.42
Hunters Point	90	120	4,233	21	832			5,086	42.38
Hyde Street	14	34	1,078	301	202	197		1,778	52.29
Lake Merced	930	67	497	114	869	565	614	2,659	39.69
Lakeshore	152	196	2,443	48	1,449	15		3,955	20.18
Marina	1,125	2,176	27,222	1,893	6,344	419		35,878	16.49
Mariposa Street	110	229	5,468	427	1,379	21		7,295	31.68
Park Merced	212	250	5,405	47	2,772	75		8,299	33.20
Pinelake	3	3	828	5	98			931	310.33
Sea Cliff No. 1	4	2	478	5	45			528	264.00
Sea Cliff No. 2	84	118	9,700	248	1,533	554	17	12,052	102.14
Vicente Street	52	74	1,755	285	666	128		2,834	38.30
Yosemite Avenue	1,277	1,075	10,779	500	3,911	94		15,284	14.22
TOTALS	4,401	5,797	$115,744	$6,126	$26,324	$3,538	$706	$152,438	$26.30

ORGANIZATION CHART

BUREAU OF STREET REPAIR

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1964



BUREAU OF STREET REPAIR

C. F. McFadden, Superintendent

FUNCTIONS

The major part of the activities of the Bureau of Street Repair concerns the routine maintenance and repair of the City's Streets and appurtenant structures, the maintenance and operation of three lift bridges, the maintenance and operation of a tunnel and the maintenance of a pumping station. Minor work other than routine maintenance and repair is performed by order of the Director of Public Works. A considerable amount of paving is done for other departments.

Routine work includes the maintenance and repair of streets, gutters, curbs, retaining walls, public stairways, pedestrian underpasses and overpasses, guard rails and fences; the maintenance and operation of lift bridges, a tunnel and the pumping station in the Geary underpass at Fillmore Street.

Work ordered by the Director includes traffic channelization, minor street alterations, minor construction and emergency work for the protection of the City and/or the public.

Work performed for other departments or bureaus includes the repair of pavement in Municipal Railway track areas, the repairing of trenches opened by the Bureau of Sewer Repair for the installation or repair of side sewers, the repair of certain state highways within the City and the repair of pavements in school yards and the yards of other City institutions. The Bureau also performs other minor services of varied nature.

The City's charter provides that repair or reconstruction on any one job shall not exceed a cost of $2,000. It also prohibits work on unaccepted streets, except in emergency, and on sidewalks in front of private property. Unaccepted streets are those streets that have not been properly improved and officially accepted for maintenance and repair by the City.

Activities are further limited by state law governing the expenditure of monies from which the bureau is financed.

Maintained road mileage is as follows:

Secondary Streets (Secondary Roads)	626.60
Major Streets (Primary Roads)	193.73
State Highways	12.37
Total	832.70

Inasmuch as San Francisco is a combined city and county, its streets and road systems are one and the same.

ORGANIZATION AND PERSONNEL

The organization of the bureau remained about the same as for the previous year. An organization chart as of June 30, 1964, accompanies this report.

Numerous Limited Tenure appointments were made during the year. Permanent vacancies existed in the following classes throughout the year; Street Repair General Foreman, Asphalt Finisher Foreman, Asphalt Finisher Sub-Foreman, Asphalt Worker, Sub-Foreman Laborer, Chauffeur and Granite Cutter. Although examinations were held for all of the above classifications, the results were not published as of June 30, 1964.

The provision of an Assistant Superintendent in the 1962-63 budget has made it possible for the Bureau to make a complete survey of the condition of curbs and gutters adjacent to new building sites prior to the start of construction. The builders and/or owners are notified of the existing conditions. When construction is completed, responsibility for resetting or replacing curbs and/or repairing gutters can readily be established. This procedure has led to better relations between the City and the private owners and contractors.

SUPERVISION

No change has been made in the Bureau's supervisory force which is composed of a superintendent, assistant superintendent, three general foremen, asphalt plant foreman and the part time services of a building maintenance superintendent. The foreman of the asphalt plant and the building maintenance superintendent in charge of bridges, tunnels and underpasses report directly to the superintendent. Each general foreman directly supervises a division of the Bureau's street repair force. The assistant superintendent is in charge of the Bureau's safety program in addition to other duties.

EQUIPMENT

With the exception of a new jet power sprayer, to be used primarily for cleaning the Broadway Tunnel, Stockton Street Tunnel and various underpasses, equipment procured during the year consisted of replacements for worn out or obsolete units. Replacement units were as follows:

1	Pavement Breaker, Joy
1	5-8 ton Tandem Roller, Ingram
1	Tractor Loader, Scoopmobile
1	Emulsion Sprayer, Littleford
4	Cast Iron Hand Rollers
50	Movable Street Barricades
4	Mobile Radio Units

Replacement units are quite similar to the units replaced. The Mobile Radio Units were acquired as part of an overall plan whereby the entire Radio System of the Department of Public Works was replaced.

MUNICIPAL ASPHALT PLANT

Asphaltic mixtures produced at the Municipal Asphalt Plant during 1963-64 were as follows:

			Composition - %			
Mix Designation	Tons	Asphalt	#6	5/16"	5/8"	1¼"
Surface	3,493	8½	91½			
School	8,898	7	60	33		
Topeka	36,203	6	45	25	24	
Spreader	1,099	5½	40	25	17½	12
Binder	411	3½	21	28	22½	25
Cold	266	*	35½	27½	30½	
Total	50,370					

* ½% asphalt and 6% Pacific specification 300 fuel oil.

Aggregates were screened into "hot bins" from a combination of Antioch (fine graded) sand, course graded sand and three sizes of gravel. Asphalt used was 60-70 penetration, paving grade. Production costs for the 50,370 tons produced during the year were as follows:

Direct Labor	$ 52,372 or	$1.04 per ton
Indirect Labor	2,547 or	.05 per ton
Overhead	11,414 or	.23 per ton
Materials	191,313 or	3.80 per ton
Gas, Electricity, etc.	17,624 or	.35 per ton
Total	$275,270 or	$5.47 per ton

There were no plant break-downs during the year but the plant was taken out of service for three days, January 29, 30 and 31, 1964, to permit bricklayers from the Bureau of Sewer Repair and Sewage Treatment to replace the firebrick in the Dryer. During this period the plant crew installed a new mixer box, mixer shanks and tips.

During June, 1964, the aggregate storage bins, #3 conveyor framework and structural steel sections of the truck sheds were cleaned, primed and painted. Painting was done by the Bureau of Building Repair, for a cost of $1,109, as a contractual service.

All other maintenance and worn part replacement was done by the operating crew during slack work days or on Saturdays.

EXPENDITURES

Accompanying tabulations show expenditures for each of the several budgeted items for each of the past five years. Percentage increases for road repair costs, wage rates and material prices are shown for "Street Repair". Percentage increases for bridge, tunnel and underpass maintenance and operation costs and for salary rates are shown for "Bridges, Tunnels and Underpasses".

EXPENDITURES Budget Item	STREET REPAIR 1959-60	 1960-61	 1961-62	 1962-63	 1963-64
Permanent Salaries	$ 41,401	$ 44,817	$ 44,878	$ 54,032	$ 57,114
Allowance for Overtime	109	43	140	125	296
Allowance for Holidays	773	878	636	879	651
Temporary Salaries	1,806(a)	139	296	449	222
Wages	934,412	994,338	1,022,593	1,162,505(d)	1,165,764
Contractual Services	93,325	89,469	87,246	103,259	115,717
Auto Mileage--Employees' Cars	24	38	25	43	36
Truck Hire	12,195	12,983	13,760	14,417	15,499
Materials & Supplies	253,323	259,575	258,654	258,919	257,170
Equipment	20,652	52,479	23,756	18,424	28,000
Accident Compensation (c)	19,759	11,220	10,119	9,627	10,689
Automobile Insurance	627	6,820	7,282	7,716	7,472
Retirement Allowance (c)	198,809	203,235	125,140(b)	131,572(d)	136,205
Employer's Tax, Social Security (c)	16,165	24,941	33,810	33,706	29,252
Allowance for Medical Plans (c)	7,566	9,160	9,078	25,309	16,800
Services of Other Departments	22,936	23,331	24,200	26,855	27,904
Total Expenditures	$1,623,882	$1,733,466	$1,661,613	$1,837,837	$1,868,791
Road Repair Costs;* % Increase:					
Over Previous Year		4.7	-.9	5.6	6.9
Over 1959-60		4.7	3.7	9.6	17.2
Wage Rates; % Increase:					
Over Previous Year		5.8	5.0	6.1	4.3
Over 1959-60		5.8	11.1	17.9	23.0
Materials Prices: % Increase:					
Over Previous Year		-.6	-.2	-.5	-.2
Over 1959-60		-.6	-.8	-.3	-1.5

* Equipment Excluded; "c" Allowances Adjusted

(a) Sick Leave Relief for Retiring General Foreman.

(b) Contribution Rate Reduced.

(c) Includes Allowance for other Bureaus and Departments.

(d) Includes Retroactive Health & Welfare Payments - 7/1/58 through 6/30/62.

EXPENDITURES Budget Item	BRIDGES, TUNNELS AND UNDERPASSES 1959-60	1960-61	1961-62	1962-63	1963-64
Permanent Salaries	$ 126,754	$ 124,888	$ 128,588	$ 133,393	$ 139,787
Allowance for Overtime	38	39	49	38	46
Allowance for Holidays	5,725	5,699	5,837	6,165	7,183
Temporary Salaries	6,297	9,768	7,185	6,508	8,255
Contractual Services	18,181	20,418	21,581	19,370	21,680
Materials and Supplies	1,224	1,448	1,475	1,663	1,662
Accident Compensation				--	--
Retirement Allowance				9,111	9,690
Employer's Tax, Social Security				2,723	3,081
Allowance for Medical Plans				1,210	1,233
Services of Other Departments	8,923	10,145	7,498	8,632	10,386
Total Expenditures	$ 167,142(a)	$ 172,405(a)	$ 172,213(a)	$ 188,813	$ 203,003
Expenditures; % Increase:					
Over Previous Year		3.1	-.1	9.6	7.5
Over 1959-60		3.1	3.0	12.9	21.4
Salary Rates; % Increase:					
Over Previous Year		0.3	4.3	6.9	3.3
Over 1959-60		0.3	4.6	11.9	15.3

(a) Accident Compensation, Retirement Allowance, Employer's Social Security Tax and Allowance for Health Service System are included in Street Repair Budget.

WORK PERFORMED

	Unit	Quantity	Total Cost	Unit Cost
Asphalt Resurfacing - Hand				
Asphalt Paving	Sq.Ft.	462,805	$67,185	$ .1452
	Tons	3,268.5		20.555
(141.6 sq.ft.per ton)				
Asphalt Resurfacing - Machine				
Asphalt Paving	Sq.Ft.	4,454,358	277,647	.0623
	Tons	27,008.0		10.28
(164.9 sq.ft.per ton)				
Asphalt Resurfacing - Box				
Asphalt Paving	Sq.Ft.	1,029,766	105,014	.1019
	Tons	7,038.5		14.92
(146.3 sq.ft.per ton)				
Asphalt Patching				
	Sq.Ft.	811,722	217,278	.2677
	Tons	5,628.0		38.607
(144.2 sq.ft.per ton)				
Asphalt Paving (Cut-Outs)				
Compressor Work	Sq.Ft.	221,605	46,178	.2084
Asphalt Paving	Sq.Ft.	242,419	58,223	.2402
	Tons	2,258.6		25.778
(74.1 sq.ft.per ton)				
Cleanup		242,419	46,956	.1937
Curb Reset and Replaced				
Compressor Work	Lin.Ft.	26,828	37,398	1.394
Granite Reset	Lin.Ft.	17,123	32,499	1.898
Granite Replaced	Lin.Ft.	5,886	14,863	2.525
Concrete Reset	Lin.Ft.	759	1,520	2.003
Concrete Replaced	Lin.Ft.	4,334	14,829	3.421
Pavement-Asphalt	Sq.Ft.	38,574	19,961	.5175
Pavement-Concrete	Sq.Ft.	4,247	6,901	1.625
Sidewalk	Sq.Ft.	32,246	44,735	1.387
Cleanup	Lin.Ft.	30,047	47,435	1.579
Total			$220,141	

	Unit	Quantity	Total Cost	Unit Cost
Concrete Curb Repair			$ 2,123	
Curb Yard				
Redress Granite Curb	Lin.Ft.	5,091	16,566	3.254
Sort, Move, Etc.			9,591	
Total			26,157	
Crack Sealing				
Sealing	Lin.Ft.	1,965,468	151,806	.0772
Cleanup			22,611	
Total	Lin.Ft.	1,965,468	174,417	.0887
Manhole Casting Reset	Each	582	41,364	71.07
Concrete Pavement Repaired	Sq.Ft.	6,829	14,665	2.147
Sidewalk Reconstructed	Sq.Ft.	15,722	23,811	1.515
Mud Jacking			1,147	
Heater Planing	Lin.Ft.	349,277	46,772	.1339
Slide & Debris Cleanup			29,384	
State Highways			1,662	
Asphalt Paving	Sq.Ft.	2,607		
Work for Other Bureaus & Departments				
Asphalt Paving			$149,300	
Concrete Paving			25,133	

BRIDGES, TUNNEL AND UNDERPASSES

The City's three bascule type bridges and their operation were described in report for year ending June 30, 1960; Broadway Tunnel and its operation was described in report for year ending June 30, 1959; the Geary Expressway Underpass pumping facilities at Fillmore Street was described in report for year ending June 30, 1963.

Bridge openings during the past year and the previous five years were as follows:

Year	Third Street	Fourth Street	Islais Creek
1963-64	2100	1697	391
1962-63	2207	1842	589
1961-62	2122	1650	941
1960-61	1503	1102	962
1959-60	1008	573	762
1958-59	1203	757	1084

All three bridges showed a decrease in the number of openings. This decrease appears to be attributable to the passage of fewer fishing boats and a decline in the number of dredging operations during the year.

The Fourth Street Bridge is the oldest of the three bridges, having been put into service February 28, 1917. During the latter part of 1963-64, a contract was awarded by the Bureau of Engineering for extensive repairs to the Fourth Street Bridge, including: certain structural repairs to offset a vibration and twisting problem in the bridge leaf and counterweight sections; installation of new hydraulic cylinder operated leaf lock assemblies; new oil cushion shock absorber assemblies; miscellaneous electrical work; cleaning and painting of the bridge structure. The low bidder was Baldwin, Erickson & Tait, Inc., with a bid amount of $104,833, and the time allowed for completion was 150 calendar days.

Statistics regarding Broadway Tunnel ventilation, lighting and traffic are as follows:

Ventilation - Blower Operating Time

Year	North Bore - Westbound Traffic				South Bore - Eastbound Traffic			
Ending	SLOW		FAST		SLOW		FAST	
June 30	Hours	Percent	Hours	Percent	Hours	Percent	Hours	Percent
1964	657.0	7.48	12.8	.14	52.6	.60	30.0	.34
1963	467.8	5.34	12.0	.13	42.6	.49	27.0	.31
1962	891.3	10.17	19.6	.22	112.8	1.29	32.3	.37
1961	423.7	4.83	10.8	.12	51.7	.59	36.0	.41
1960	200.1	2.28	5.9	.07	32.2	.37	26.2	.30
1959	228.5	2.61	5.6	.06	39.3	.45	33.9	.39

Lighting - Lamps Replaced

	Occasions	72T8's	72T12's	Total
Lamps in Service		1004	332	1336
Replaced During Year	2	424	42	466
Previously Replaced	46	5110	362	5472
Totals (Since Dec. 1952)	48	5534	404	5938

Traffic Counts

		Eastbound	Westbound
Tuesday	March 3, 1964	11,589	10,723
Tuesday	December 15, 1959	12,216	10,359
Thursday	July 10, 1958	11,144	9,478
Wednesday	March 16, 1955	10,607	9,795
Monday	August 17, 1953	9,361	8,878
Wednesday	February 11, 1953	8,668	8,770

The tunnel was put into service in December 1952.

The pumping facilities at the Geary Expressway Underpass at Fillmore Street continued to operate satisfactorily during the year with only one exception. The two check valves on the discharge line were overhauled because of excessive wear to the shaft keys.

Pump operating hours during the year and the previous year were as follows:

Year	Pump #1	Pump #2
1962-63*	239	246
1963-64	380	375

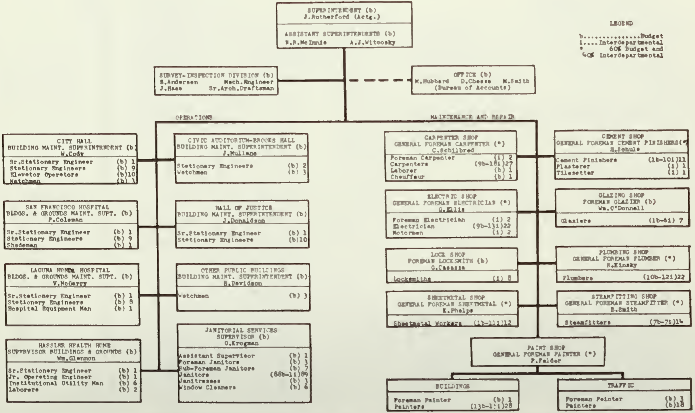
*Pumps operated for approximately seven months during year.

ORGANIZATION CHART

BUREAU OF BUILDING REPAIR

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1964



BUREAU OF BUILDING REPAIR

J. Rutherford, Acting Superintendent

This Bureau is, as the name implies, that division of the Department of Public Works Maintenance and Operation activities which deals primarily with our public buildings. The scope of the Bureau's responsibilities is wide and varied; of primary importance is the providing of services and materials and supplies for the maintenance, repair, replacement and reconstruction of the 316 public buildings which have been established by Charter authority or policy as being the responsibility of the Department of Public Works. The following are secondary functions in relative order of importance:

1. Provide operational and/or janitorial personnel and supplies for 107 of these public buildings requiring the services of 190 budgeted employees.

2. Provide necessary maintenance and repair services to other City departments or agencies through an interdepartmental work order procedure, or by competitive public contract. The relative volume of work is indicated in figure 1.

3. Provide labor and supervision for street traffic painting by interdepartmental work order procedure from the Bureau of Engineering.

4. Provide inspection and survey service necessary for the preventive maintenance program and the compilation of data and materials for the intelligent formulation of the budget. In addition, providing technical assistance to the operation and repair divisions and preparing plans and specifications for informal contracts for repair work beyond the scope or ability of Bureau forces.

5. Provide for the maintenance and repair of all street name signs by interdepartmental work order procedure from the bureau of Engineering.

6. Provide for the maintenance and repair of street structures, sidewalks and various monuments by interdepartmental work order procedure from the Bureau of Engineering.

ORGANIZATION AND PERSONNEL

The organization table shown on the first page of this report indicates the primary divisions within the Bureau, their function and the budgeted positions (b) as contrasted with the interdepartmental positions (i).Budgeted personnel consists of 276 employees in the administrative, supervisory, operational, janitorial and craft divisions. Most of the budgeted mechanics are on long term assignment to the various major public buildings. Interdepartmental personnel consists of various craft mechanics employed on as "as needed" basis, the number, depending upon the work load and funds provided by other City departments or agencies. A total of 109 interdepartmental positions were authorized for the year. Two budgeted positions in the janitorial division were abolished upon the retirement of the incumbents and one new position of Management Assistant was created to fill an important need in the area of planning, work programming and analysis and research into new methods and procedures.

SIGNIFICANT CHANGES, PROBLEMS AND PROGRESS OF 1963-64

In July and August, 43 maintenance and operational employees were transferred to this Bureau from the Health and Real Estate Departments. The Bureau has now assumed the additional responsibility for the operation of the basic plant facilities of the San Francisco Hospital, Laguna Honda Hospital, Hassler Health Home and the newly remodeled Civic Auditorium. An interesting account of the latter project may be found in the report of the Bureau of Architecture.

The total interdepartmental work load from all departments and agencies decreased 4.6% over last year. While the School Department increased funds for miscellaneous repairs to partially compensate for increased wages, there was a considerable reduction in the volume of specific work order jobs. The overall expenditures increased 4.0% over last year. During the year 13,606 requisitions for miscellaneous school repairs were completed which averages 53 per working day. Of this total volume, 3,845 were emergency requests requiring immediate response. Analysis of the completed work shows that 52.9% of the jobs cost $25 or less and 97.8% cost $100 or less. The average cost per requisition was $43.42. The glazing shop effected savings in material costs of $2,620 by the judicious use of salvage glass from broken windows which was cut into smaller sizes and re-used.

The total overhead for the interdepartmental operations averaged 46.9% for the year as compared to 47.7% for the prior year. The overhead for any and all interdepartmental units in the City is necessarily close to this figure and consists of items over which the Bureau has no control such as retirement, compensation, sick leave, vacations, supervision, truck charges, etc.

SALARIES, WAGES, PROBLEMS AND PROGRESS

The wages of craft mechanics and supervisors continued to increase as was common in the building trades throughout the nation. The trend of building trade wages in San Francisco compared to the national averages is indicated in figure 3.

Some progress was made in the preliminary steps required to have the existing $2,000 Charter limitation on repair work increased to a reasonable level.The $2,000 limitation was established in 1946 when the Bureau of Labor Statistics Building Trade Index was less than 100. The index is now over 200 and the limitation should be adjusted correspondingly. This change has been recommended in the Blyth-Zellerbach Report, the Griffenhagen Report and by the Grand Jury. It is understood that this Charter change will appear on the November ballot.

The School Department continues to labor under the almost unworkable, self-imposed, $500 limitation on repair work done by this bureau. This unrealistic restriction had to be overcome by special Board approval in several instances where alterations were needed quickly in order to meet the starting dates of special government sponsored training programs. Under the present circumstances of close mutual cooperation it is felt that the Bureau could offer the School Department improved service, lower overall costs and ability to accomplish emergency work if the present $500 limitation were restored to its previous level of $2,000.

Progress continues to be made in work programming and efficiency has been increased by improved methods, new tools, power equipment and vehicles. The transfer and centralization of the operating personnel from the Health Department allows greater flexibility in manpower assignment and should begin to show monetary savings as well.

TABLE 1

PUBLIC BUILDINGS UNDER THE JURISDICTION OF THE DEPARTMENT OF PUBLIC WORKS FOR MAINTENANCE AND REPAIR

	Buildings			1963-64	
Department and Activity	No.		Floor Areas Total Sq.Ft.	Total Budgeted Funds (Inter-departmental & General Repair	Unit Costs Based on Floor Areas-$/Sq.Foot
Fire Department	59		590,000	$ 134,711	$0.228
Police Department (C)	9		101,293	21,908	0.216
Public Health					
Health Center Bldg. (C)	(4		103,370	36,480	0.291
and Health Centers	(7	(R)	22,151		
Adult Guidance Center	-		(4,500)	1,000	0.223
V.D. Control	1	(R)	6,200	1,648	0.265
Emergency Hospitals	6		33,352	6,794	0.204
Hassler Health Home (C)	17		130,000	45,095	0.347
Laguna Honda Hospital (C)	25		650,000	227,678	0.351
San Francisco Hospital (C)	33		753,000	291,966	0.388
Public Library	(20		320,263	67,330	0.202
	(8	(R)	13,280		
Public Welfare					
585 Bush Street	1		43,791	9,048	0.217
150 Otis Street	-		(17,900)	2,000	0.112
S.M.R.C.-Redwood City	1		10,000	4,242	0.424
Public Works					
City Hall (C)	3		526,540	121,271	0.230
Hall of Justice (C)	1		580,500	54,378	0.094
150 Otis Street (C)	2		40,900	13,981	0.342
Maintenance Yard (C)	10		72,890	13,744	0.189
Sewage Pumping Stations	14		23,085	9,051	0.393
Sewage Treatment Plants	36		543,330	120,794	0.222
450 McAllister Street (C)	1		56,460	14,802	0.263
Real Estate Department					
Civic Aud.-Brooks Hall	2		434,500	44,285	0.102
Sheriff					
County Jails #2 & #4	7		138,970	53,110	0.382
Juvenile Court					
Youth Guidance Center	16		200,828	61,525	0.308
Log Cabin Ranch	16		32,000	17,996	0.562
Miscellaneous Departments	16		214,994		
and Activities	1	(R)	6,012	34,520	0.157
	-		(20,700)		
TOTALS	316		5,647,709	$1,409,357	Ave. 0.250

NOTES

(R) Indicates building is rented. (Total of 17 rented buildings with a combined floor area of 47,643 square feet.)

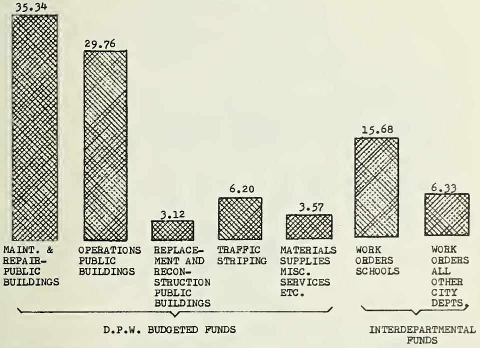
(C) Indicates custodial and/or operational services also provided by Bureau of Building Repair.

(00,000) These floor areas are not added to obtain the total floor areas of all buildings as these areas are included elsewhere with other buildings.

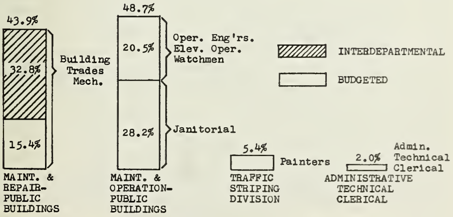
($125,090 allowed for Replacement & Reconstruction of Public Buildings is not included in any of the above sums.)

BUREAU OF BUILDING REPAIR

FIGURE I

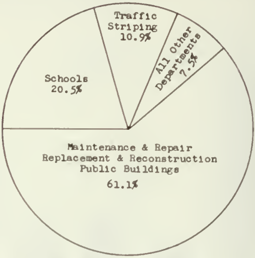


PROPORTIONAL EXPENDITURES OF ALL MONEY 1963-64



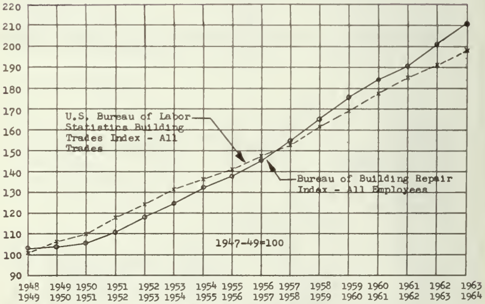
PERSONNEL ASSIGNMENT

BUREAU OF BUILDING REPAIR



ASSIGNMENT OF BUILDING TRADES PERSONNEL
(192 Employees)

FIGURE 2

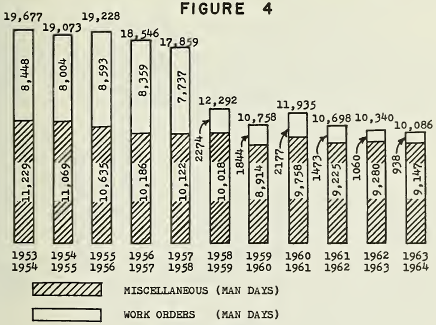


EMPLOYMENT COST INDEXES

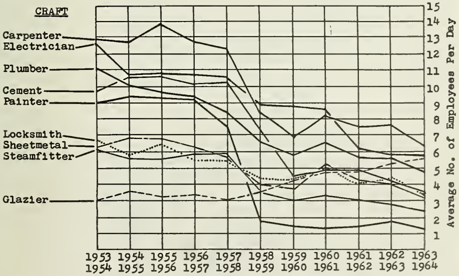
FIGURE 3

BUREAU OF BUILDING REPAIR

FIGURE 4



YEARLY WORKLOAD



DAILY MANPOWER REQUIREMENT

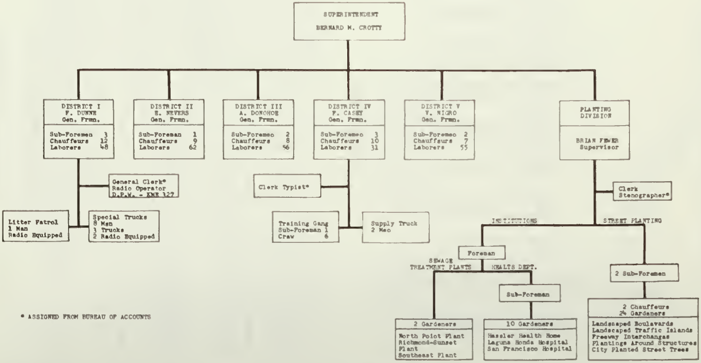
SCHOOL REPAIRS

ORGANIZATION CHART

BUREAU STREET CLEANING AND PLANTING

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1964



* ASSIGNED FROM BUREAU OF ACCOUNTS

BUREAU OF STREET CLEANING AND PLANTING

Bernard M. Crotty, Superintendent

The Bureau of Street Cleaning and Planting is responsible for the cleaning of 1,657 curb miles of streets and 109 curb miles of traffic islands. The Bureau is also charged with the maintenance of street trees and street landscaping, landscaping at San Francisco General Hospital, Laguna Honda Hospital, and Hassler Health Home, and the three sewage treatment plants, for a total of 7,300 trees and 232 acres of landscaping.

During the year 1963-1964, the Bureau had 379 employees in two divisions and expended $3,081,226. The street cleaning division operations required $2,812,301 for its work and the street planting division required $268,925 to maintain the plantings.

The street cleaning division had 71 units of motorized equipment, including 4 refuse getters, 4 compaction trucks, 28 dump trucks, 14 mechanical sweepers, 10 motor flushers, 2 panel trucks, 1 stake body, 2 front-end loaders and 6 automobiles. The street planting division had 9 units of equipment, including 2 dumps, 2 water trucks, 2 utility-body, 1 pickup, 1 Fordson tractor with attachments, and 1 brush chipper. The total mileage traveled by the 78 automotive units was 540,403 miles. The street cleaning division hauled over 100,000 cubic yards of refuse to the sanitary fill dump during the year.

The 1963-1964 budget allowed $64,750.00 for purchase of 6 units of new equipment, including 2 mechanical sweepers, 1 motor flusher and 3 dump trucks.

During the year the Bureau logged 20,054 radio calls over Public Works Station KME 327. Of these, 13,110 calls were originated by the Bureau of Street Cleaning and Planting, and 6,944 calls were made by the other Department of Public Works Bureaus. This aid to Public Works functions continues to be more valuable each year in that all emergencies reported to or observed by this Department can be acted on immediately. Two years ago, on the recommendation of the Mayor's Committee for Municipal Management, gang sweeping in the south of Market area was eliminated and a night mechanical sweeper was substituted. After approximately 18 months this service was found to be very inadequate, and at the beginning of 1964, we re-activated the gang in the south of Market area. This was deemed necessary because of our personal observations and the increasing numbers of complaints from the public. Although we resumed gang sweeping in this area we did not stop the night mechanical sweeper. We have found that in order to properly clean this area both methods of cleaning are necessary. The gang to clean alleys and other locations inaccessible to the motor sweeper, and the motor sweeper to clean the main streets at night when there are few parked automobiles. Tables showing the statistics of gang sweeping, mechanical sweeping and motor flushing operations may be found on pages 159, 160 and 161. As stated in previous annual reports, we are continuing to experiment with the numerous new materials for main brooms on mechanical sweepers. Although we keep accurate records on miles swept and the cost of the brooms, and those statistics show a saving both in increased sweeping and less down-time, we are not satisfied that the best material or combination of materials have been tried. Many claims are made by the manufacturers of the various fibers but it is a time-consuming undertaking to try each one, and we are obligated to continue experimenting until we are satisfied that we have found the most suitable material for our use. We can state, however, that the old materials are now passe and the savings we know can be realized through the use of the newer fibers warrants continued investigation.

The 4th annual spring anti-litter campaign in May of 1964 was completed on a note of complete success in that a unique and original idea was tried. This consisted of holding a sweeper derby (race by 6 street sweepers on a measured course sweeping equal amounts of dirt), and a contest for the best decorated street cleaner's buggy.

These buggies were decorated by neighborhood merchants (see photographs on page 153). Both of these events were held at noon in Union Square the first Monday of May.

Radio personality Al Collins acted as master of ceremonies. Judging from the reaction of the crowd and interest shown by members of the press, the stunts were very successful and most certainly gained the end for which they were intended. It is anticipated that this affair will be an annual event to bring attention in a novel way to the need for citizen cooperation in our fight to reduce littering.

Street Sweeping Derby - Union Square

Best Decorated Street Sweepers' Buggies. Master of Ceremonies, Al Collins.

STREET PLANTING DIVISION

This Division of the Bureau of Street Cleaning and Planting is responsible for maintaining the landscaping on streets, boulevards and some freeway interchanges. In addition, the Division also maintains City planted street trees, landscaping around the three sewage treatment plants, San Francisco General Hospital, Laguna Honda Home and Hassler Health Home.

A permanent crew of 36 gardeners, 2 chauffeurs, 3 sub-foremen and one foreman directed by a supervisor of the division, care for a total of 232 acres of landscaping and approximately 7,300 street trees. These functions required the expenditure of $268,925 during 1963-1964.

During this year the landscaping around San Francisco General Hospital, Laguna Honda Home, Hassler Health Home and three sewage treatment plants was transferred to this division for maintenance. In addition, 280 new street trees were also assigned to the division for care bringing the total number of City trees on streets to 7,300. It is to be noted that the greatest number of these sidewalk trees are young specimens and require extensive care such as regular watering by hand from a tank truck, fertilizing, weeding and general care of the basin.

In addition to the foregoing new plantings, the Redevelopment Agency landscaped several large traffic islands in the Diamond Heights area and these also were turned over to the Department for care by the Planting Division.

During the past four years no additional help has been allowed to care for the tremendous increase in landscaped areas. However, this year $8,000 was appropriated to supplement the regular crews in caring for the many additional areas. Although we knew that these funds would be beneficial to the plants and landscaping, we were not anticipating such a boon as these funds proved to be.

The $8,000 was used to secure temporary employees and to rent a truck for their transportation from site to site around the City. We hired four temporary assistant gardeners and one temporary sub-foreman who have been dubbed the "Flying Squad". This squad goes from area to area weeding, watering and removing accumulations of litter. This allows our regular employees to stay at the large landscaped areas along the boulevards and not neglect them by leaving to care for widely scattered small landscaped plots. We will continue to request and use such funds in future years to great advantage through seasonal employments.

In order to properly care for urban landscaping, much manpower is required as the plantings are necessarily more formal than rural landscaping. To do this and not increase employments radically, many new tools and innovations both mechanical and chemical must be tried.

Late this year we experimented with a chemical growth retardant (MH3) on the Algerian Ivy along Geary Boulevard. We have not had sufficient time to judge its effectiveness yet but it is anticipated that the frequency of cutting and edging may be reduced by one-third and possibly more. This material is harmless to most plants and when use is discontinued the plants resume regular growth patterns without injury.

Simazine 4-G, a granular compound, has been used extensively in planted areas for weed control. Some plants are adversely affected by this material but we will continue to use this chemical and replace the affected plants with those which we find more tolerant.

Amizine, a water soluble powder, is used on equestrian and pedestrian paths for weed control. This chemical is superior to petroleum by-products which we have depended upon for weed abatement and control in the past.

Liquid nitrogen fertilizer 20-0-0 is used in a diluted solution in our tank trucks for application to young trees and planted areas that do not have irrigation facilities. The results of this treatment are very satisfactory and are evidenced by more attractive and healthy plants and trees.

The Division received a new Asplundh brush chipper replacing a wornout unit which was nine years old. Two new portable power spray units were purchased and delivered and have been most helpful in our operations. With these two machines it is possible to spray chemical insect control and chemical weed control at the same time from the same truck.

An instrument to test soil moisture content was bought and will be used extensively to gauge the amount of water applied to tree basins and we will be able to judge if the amount of water is adequate or excessive. Excessive watering can often be more damaging to plants than too little water. This instrument will allow us better control over our irrigation of young trees and plants. For several years the Division has requested funds for replacement of wornout irrigation systems in the older landscaped boulevards such as Sunset Boulevard, Sloat Boulevard and along Junipero Serra Boulevard.

Recently funds were allowed for complete replacement of the irrigation system on Junipero Serra Boulevard and part of the system along Sunset Boulevard. Inasmuch as the replacement of the system on Sunset Boulevard required a very large appropriation, funds for only part of the system were requested and allowed. The money provided reconstruction of the irrigation lines from South Drive in Golden Gate Park to Lawton Street.

Electric timers have been incorporated into the new system and already we have been able to reduce the number of man hours required to maintain the Boulevard. This in turn allowed us to assign some of our men more areas.

Many new species of trees are being tested through the tree evaluation program in conjunction with the University of California at Davis. Because of the variety of climatic zones in San Francisco we have trees growing in certain neighborhoods which would not thrive in others. This program is, therefore, of much value and interest to us as well as the other participating California cities.

Toward the end of the year the Board of Supervisors passed amendments to the Street Planting Ordinance. The changes which were made included simplification of the permit procedure for boxed and potted trees by easing the insurance requirements. This one change alone, we anticipate, will accelerate the placing of trees along downtown streets.

Plant A Tree Week during March of 1964 equalled the success of the previous year. Since this program of volunteer private tree planting was started four years ago it is estimated that approximately 40,000 trees have been put in San Francisco's sidewalks.

It is to be noted that the responsibility and work of the Planting Division is not limited to care and maintenance of the landscaping and trees throughout the City. Many advisory services regarding horticultural matters are provided numerous public and private agencies and individuals. Among these are the Bureau of Engineering, the Redevelopment Agency, City Planning Commission Staff, State agencies, private architects, builders and home owners. In addition, this Division works with and freely assists the Street Planting Advisory Committee and San Francisco Beautiful.

The Street Planting Advisory Committee did not have a very active year because of the lack of funds for the planting program. Funds allowed in the past have been put to good use such as the planting of the street trees on Sacramento Street between Van Ness and Presidio, also on Franklin Street between California Street and Broadway, the landscaping of the traffic island on Van Ness Avenue in front of the City Hall and also at 41st Avenue and Geary Boulevard and tree and shrub plantings along Gilman Avenue between Griffith and Hunters Point Expressway. Additional center islands on Van Ness Avenue between McAllister and O'Farrell Streets are in the process of being planted.

A continuing landscaping project—center islands along Van Ness Avenue Capital Improvement Program.

Recently installed irrigation system which will progressively replace a 30-year-old system. Capital Improvement Program.

An attractive traffic divider—Portola Drive.

TABLE I

Department of Public Works
BUREAU OF STREET CLEANING AND PLANTING
City & County of San Francisco

GANG SWEEPING - FISCAL YEAR 1963-1964
(Sweeping Frequencies for Gang Route Numbered:)

Month	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
1963												
July	2.08	4.60	4.40	2.87	1.64	2.44	2.44	1.69	2.87	2.33	*	**
August	2.09	4.40	4.00	2.10	1.46	2.20	1.83	2.00	2.75	1.69		
September	1.58	4.00	3.33	2.00	1.26	1.81	1.69	1.72	2.00	1.72		
October	2.00	4.60	3.33	2.77	1.64	2.09	2.30	2.09	3.00	2.18		
November	2.22	4.20	4.20	2.50	1.35	1.81	1.72	1.72	2.50	2.11		
December	2.87	4.40	4.60	3.50	1.90	2.22	2.00	1.90	2.62	2.30		
1964												
January	3.00	4.40	5.40	3.28	1.91	2.44	2.62	2.00	3.00	2.44		
February	2.22	4.00	4.75	3.17	1.58	2.11	2.22	1.81	2.62	2.37		
March	2.62	4.40	5.50	3.50	2.00	2.44	2.62	2.00	2.44	2.33	2.10	
April	2.33	4.40	5.20	3.28	1.69	2.44	2.27	2.00	3.14	3.00	2.75	
May	2.57	4.20	4.50	1.53	1.81	2.33	2.50	1.90	3.14	3.00	2.85	
June	2.50	4.40	4.40	2.75	1.66	2.44	2.75	2.00	2.50	3.00	2.62	
Totals	28.08	52.00	53.61	33.25	19.90	26.77	26.96	22.83	32.58	28.47	10.32	

NOTE: Each Gang is under supervision of a labor sub-foreman and is composed of 4 to 6 hand-sweepers with a truck crew of 1 chauffeur and 2 laborers. Length of each route varies from 66 to 270 curb-miles.

* Gang #11 formed in March.
** Gang #12 is weeding gang.

TABLE II

Department of Public Works
BUREAU OF STREET CLEANING AND PLANTING
City & County of San Francisco
MOTOR SWEEPING - FISCAL YEAR 1963-1964

Month	Curb Miles Swept	Sweeper Loads (Number)	DISPOSITION OF **15 SWEEPERS (Hours) Sweeping	Downtime*	Total Work-day Hours	Downtime* (Percentage)	Average Number of Sweepers in Operation
1963							
July	4,311	282	1,332	1,064	2,396	44.40	7.23
August	5,131	302	1,426	1,334	2,760	48.31	7.75
September	4,396	274	1,360	1,016	2,376	42.75	8.59
October	5,421	369	1,667	1,209	2,876	42.03	8.72
November	3,992	270	1,176	1,212	2,388	50.74	7.39
December	4,336	275	1,384	1,256	2,640	47.57	7.86
1964							
January	5,313	395	1,699	1,069	2,768	38.61	9.21
February	4,939	336	1,538	982	2,520	38.96	9.16
March	5,418	353	1,706	1,086	2,792	38.89	9.17
April	5,918	376	1,828	972	2,800	34.71	9.79
May	4,882	274	1,473	1,243	2,716	45.76	8.14
June	5,291	314	1,635	1,157	2,792	41.43	8.79
Total	59,348	3,820	18,224	13,600	31,824	-	-
Averages per Month	4,945	318	1,518	1,133	2,652	42.84	8.48

NOTE: *Downtime includes all work-day time that equipment is not engaged in actual street sweeping; such as, when undergoing repairs, held for servicing or for standby.

** 14 Sweepers plus 1 night sweeper = 15 sweepers total.

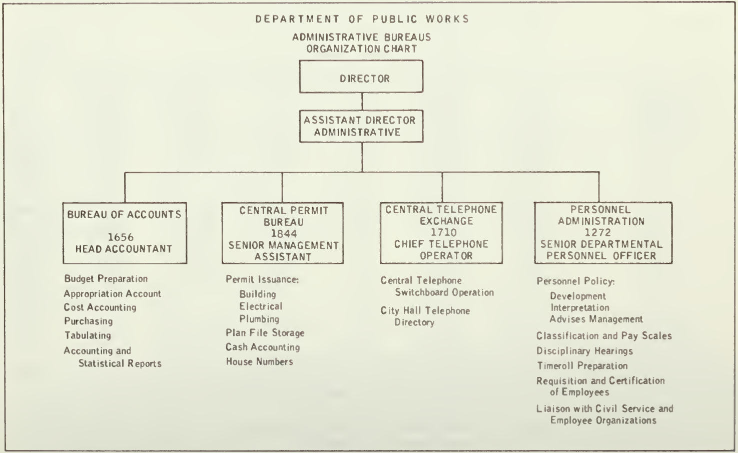
TABLE III

Department of Public Works
BUREAU OF STREET CLEANING AND PLANTING
City & County of San Francisco
MOTOR FLUSHING - FISCAL YEAR 1963-1964

Month	Curb Miles Flushed	No. of Stops for Refilling Water Tanks	DISPOSITION OF 10 FLUSHERS (Hours) Flushing	Downtime*	Total Work-day Hours	Downtime* (Percentage)	Average Number of Flushers in Operation
1963							
July	6,445	2,855	1,273	527	1,800	29.26	7.07
August	6,531	3,108	1,331	469	1,800	26.04	7.40
September	5,710	2,629	1,155	405	1,560	25.93	7.41
October	5,246	2,396	1,017	851	1,868	45.54	5.45
November	4,458	1,932	905	639	1,544	41.36	5.86
December	5,268	2,470	1,068	648	1,716	37.75	6.23
1964							
January	6,273	2,870	1,268	556	1,824	30.47	6.95
February	5,458	2,431	1,096	540	1,636	33.00	6.70
March	5,705	2,577	1,119	685	1,804	37.95	6.20
April	5,897	2,770	1,170	634	1,804	35.13	6.49
May	5,987	2,761	1,181	543	1,724	31.48	6.85
June	5,605	2,618	1,115	681	1,796	37.91	6.21
Total	68,583	31,417	13,698	7,178	20,876	-	-
Averages per Month	5,715	2,618	1,141	598	1,739	34.31	6.56

NOTE: Each flusher is operated with 1 Chauffeur and 1 Laborer for handling flushing controls.

*Downtime includes all work-day time that equipment is not engaged in street flushing; such as, when undergoing repairs, held for servicing, or standby or when operating on work of different nature.


DEPARTMENT OF PUBLIC WORKS
ADMINISTRATIVE BUREAUS ORGANIZATION CHART
DIRECTOR
ASSISTANT DIRECTOR ADMINISTRATIVE
BUREAU OF ACCOUNTS 1656 HEAD ACCOUNTANT
Budget Preparation
Appropriation Account
Cost Accounting
Purchasing
Tabulating
Accounting and Statistical Reports
CENTRAL PERMIT BUREAU 1844 SENIOR MANAGEMENT ASSISTANT
Permit Issuance:
Building
Electrical
Plumbing
Plan File Storage
Cash Accounting
House Numbers
CENTRAL TELEPHONE EXCHANGE 1710 CHIEF TELEPHONE OPERATOR
Central Telephone Switchboard Operation
City Hall Telephone Directory
PERSONNEL ADMINISTRATION 1272 SENIOR DEPARTMENTAL PERSONNEL OFFICER
Personnel Policy:
Development
Interpretation
Advises Management
Classification and Pay Scales
Disciplinary Hearings
Timeroll Preparation
Requisition and Certification of Employees
Liaison with Civil Service and Employee Organizations

ADMINISTRATIVE BUREAUS

R. Brooks Larter, Assistant Director, Administrative

Due to retirements of key personnel during the fiscal year 1963-1964, it was desirable to make certain basic changes in the organization of the Administrative Bureaus. The retirements concerned and the effective dates are:

September 1, 1963 - Beatrice Lynch
Chief Telephone Operator
September 1, 1963 - Marshall C. Coffey
Senior Clerk, Personnel
(General Office)
December 1, 1963 - James J. McCloskey
Head Accountant
(Bureau of Accounts)
February 1, 1964 - Sidney Franklin
Supervisor, Central Permit Bureau

The years of service rendered by these four civil servants totaled a century and a quarter and the loss of their valuable services is being felt throughout the Department. In order to implement the necessary reorganization, two reclassification of positions were made:

1. The Senior Clerk, Personnel, position in the General Office was reclassified to Senior Departmental Personnel Officer and Mr. Albert C. Ambrose was certified to the latter position effective December 26, 1963.

2. The position of Supervisor, Central Permit Bureau, was reclassified to Senior Management Assistant and Mr. Gilbert H. Boreman was certified to this position effective May 1, 1964.

In addition Mr. Jun Iwamoto was certified to the position of Head Accountant effective May 1, 1964 and is now in charge of the functions of the Bureau of Accounts.

The Department was fortunate to work out an exchange of personnel with the Municipal Railway which was partially caused by the necessity to reorganize for the Centrex Telephone Switchboard scheduled for operation on July 13, 1964. Mrs. Beryl Johansen, Chief Telephone Operator for the Municipal Railway, has been assigned to the City Hall telephone switchboard in exchange for a City Hall telephone operator who has been assigned to the Municipal Railway. Mrs. Johansen is in full charge of the City Hall telephone service and will be in charge of the Centrex Switchboard after July 13, 1964.

The Centrex Switchboard will consolidate on one switchboard all telephone service to City Hall offices as well as outside departments. It will include the services formerly on HEmlock 1-2121 as well as the Mayor, the Assessor, the City Attorney, the Municipal and Superior Courts, the Health Center Building, the Water Department, the Municipal Railway and the Recreation and Park Department. The Public Welfare Department is scheduled for inclusion on Centrex at a future date.

Telephone service to City departments will thus fall into five categories after Centrex becomes operable:

1. Centrex (departments listed above).
2. Hall of Justice, including Police, District Attorney, Adult Probation, Coroner, Public Defender and Traffic Fines.
3. Fire Department.
4. Hospitals (separate service to San Francisco General Hospital and Laguna Honda Home).
5. Juvenile Court.

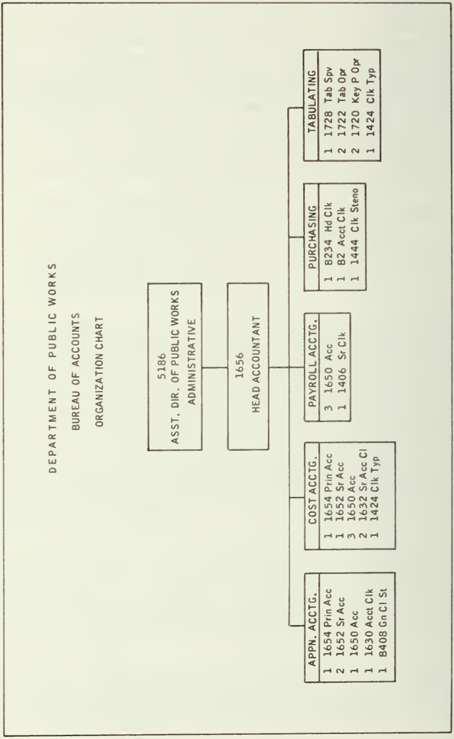
Under the Centrex system the citizen will be able to reach the administrative offices of City and County Government through a single telephone number; telephone service between City departments, employees and officials will be speeded up through the simple four-digit dialing system; transfer of incoming calls from one extension to another will be simplified; long-distance calls will be charged to the extension from which placed; and direct inward dialing will permit telephone calls to be dialed direct to the desired extension without going through a switchboard operation. In this connection, it should be again noted that HE 1-2121 receives 100,000 telephone calls per year for departments not connected to the City Hall switchboard; in the future City Hall operators will be able to connect these incoming calls to the proper extensions.

One little publicized but nevertheless compelling reason for the installation of Centrex is that the City Hall, Water Department and Health Department reached the limit of their capacity about five years ago and great expansion of these systems in both equipment and personnel is long overdue. In addition the Municipal Railway has an old, completely manual switchboard that should be replaced by a modern system.

Construction of the equipment room to house the Centrex equipment together with modification to the switchboard operating room is nearly complete as is the equipment installation itself which is being done by Western Electric.

The installation of Centrex is a major step in the modernization of telephone service of the government of the City and County of San Francisco under the recommendation of the Department of Public Works. The previous major accomplishment of this nature was the consolidation of telephone service to the law enforcement agencies in the Hall of Justice. Other steps were the elimination of the following separate telephone services by consolidation on the City Hall switchboard: Disaster Corps, Health Service, Parking Authority, Public Utilities General Office and Public Works Army Street office.

An organization chart of the administrative bureaus is included.



DEPARTMENT OF PUBLIC WORKS
BUREAU OF ACCOUNTS
ORGANIZATION CHART

BUREAU OF ACCOUNTS

J. J. McCloskey, Head Accountant (to Nov. 30, 1963)
T. Bowler, Acting Head Accountant
J. Iwamoto, Head Accountant (from May 1, 1964)

FUNCTIONS AND ORGANIZATION

The operating functions of the Bureau embrace control of payroll procedures, personnel records and field time-keeping; purchase order requisitions; sub-storeroom and inventories; automotive expenditures; work order job costs and invoicing; side sewer job deposits and refund accounts; refundable trust fund deposits; State gasoline tax subventions and Bond Fund accounts; capital improvement accounts for the General Fund, and Recreation and Park Department Fund; the cash revolving fund; the material stores revolving fund; budget preparation and controlling accounts; and the supplying of clerical service to all of the maintenance and operating bureaus.

ACCOUNTING DIVISION

This Division maintains accounts showing allowances, reserves, allotments, expenditures, encumbrances, and balances, for all funds under the control of the Department. These accounts form the basis of controlling all transactions of the Department to assure that funds are expended for the purpose for which they were appropriated.

Final reports for projects completed from the Special Gas Tax Street Improvement Fund are prepared and forwarded to the State of California, Division of Highways, in accordance with the provisions of the Streets and Highways Code.

Job costs pertaining to damages to City property under the jurisdiction of the Department are compiled and forwarded to responsible parties for collection. These costs amounted to $21,912.17 for the fiscal year and embraced 444 cases, covering damages to automotive equipment, street structures, bridges, street signs, traffic signs, street trees, traffic signals, traffic devices and damages to public buildings.

The accounting section of the bureau handled the fiscal processing of formal contracts during the year, covering street improvements, sewers, sewage treatment plants, schools, hospitals, firehouses, recreation and park improvements, and various projects for other City departments.

The personnel of the Bureau of Accounts as of June 30, 1964 consisted of:

1	Head Accountant
1	Principal Accountant
3	Senior Accountant
5	Accountant
1	Senior Account Clerk
2	Account Clerk
1	Chief Payroll and Personnel Clerk
1	Senior Payroll and Personnel Clerk
4	Payroll and Personnel Clerk
1	Head Clerk
2	Senior Clerk
1	Senior Clerk Typist
3	General Clerk Stenographer
2	General Clerk Typist
1	General Clerk
1	Clerk Stenographer
4	Clerk Typist
1	Clerk
1	Tabulating Division Supervisor
2	Tabulating Machine Operator
2	Key Punch Operator
40	Total

Budget expenditures for operation of the Bureau of Accounts for the fiscal year 1963-64 were as follows:

	Allowances	Expenditures
Permanent Salaries	$204,244	$196,085
Overtime	900	900
Holiday Pay	810	808
Contractual Services	21,124	20,366
Materials and Supplies	3,800	3,673
Equipment	5,285	4,897
Services of Other Departments	6,508	6,502
EDP - Temporary Salaries	9,586	9,586
Total	$252,257	$242,817

PAYROLL AND PERSONNEL DIVISION

During the fiscal year, the Payroll and Personnel Division of the Bureau of Accounts prepared and processed a total of 1,425 timerolls involving an expenditure of $13,990,397.06. Included in this payroll expenditure is a substantial amount for temporary employees.

There was a total of 273 requisitions for permanent civil service employees to replace vacancies due to deaths, resignations, transfers, retirements, etc. Additionally there were 483 requisitions for temporary civil service employment due to vacation, sick leave, personal leave, reclassification, replacements, etc. However, because of difficulty in recruiting civil service employments, it was necessary to employ 809 non-civil service employees for these authorized positions. The inter-relationship of personnel records to the preparation of these payrolls necessitated 2,962 reports to the Department physician of new cases of illness to verify legitimacy of sick pay as required by Ordinance. There were also 225 accident reports filed with the necessary follow-up procedure required which are not included in the reports to the Department physician.

PURCHASING DIVISION

During the fiscal year 1963-1964, the Purchasing Division of the Bureau of Accounts processed 6,212 requisitions for purchase orders and/or revolving fund orders in the total amount of approximately $1,277,549.71 involving 31,060 items. Outside purchases from vendors also brought about the issuance of 6,069 delivery orders involving 24,276 items, and 12,046 storeroom tags involving the delivery of 36,138 items, and 112 requisitions on the storekeeper involving 1,680 items.

For the supplying of materials for the varied activities of the Department, a sub-storeroom and a material yard are conducted. Through these means, along with the requisitions for purchase orders and/or revolving fund orders, 24,439 transactions were handled, involving the delivery of 93,154 items to jobs. Stores inventory on hand as of June 30, 1964, amounted to $76,372.40.

TABULATING DIVISION

This division with the use of IBM unit record equipment performs the job cost accounting for work orders. This entails the accumulation of labor costs, material costs, and computation of overhead for engineering, architecture, building repair, and street repair work orders.

Reports on street and parking signs, sidewalk widths, traffic accidents, and traffic painting are prepared for the Bureau of Engineering, Division of Traffic Engineering.

Other work performed by the Division includes the production of time cards for all per diem employees, maintenance of stores inventory, accounting and issuance of electrical sales permits and plumbers licenses, and preparation of the City and County Centrex telephone directory.

DEPARTMENT PERSONNEL

For the fiscal year 1963-64, there was a total of 1,684 authorized permanent employees in the Department of Public Works, as follows:

	Number of Employees	
Bureau	1962-63	1963-64
General Fund		
Accounts	39	40
Architecture	62	62
Building Inspection	90	90
Building Repair	343	385
Central Permit	11	11
Engineering	254	257
General Office	18	18
Sewage Pumping Stations	14	14
Sewage Treatment Plants	100	100
Sewer Repair	128	128
Street Cleaning	335	349
Special Gas Tax Street Improvement Fund		
Bridges, Tunnels, & Underpasses	22	22
Road Fund		
Street Repair	152	152
Traffic Engineering	29	29
Street Tree Planting	27	27
Total	1,624	1,684

DEPARTMENT BUDGET

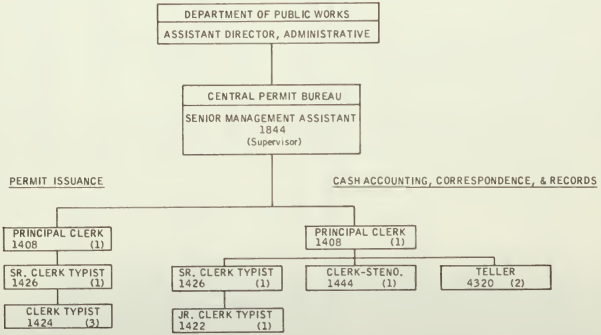
BUREAU	Budget		Expenditures	
	1962-63	1963-64	1962-63	1963-64
General Fund				
Accounts	$239,815	$252,257	$232,611	$242,817
Architecture	83,333	86,437	82,226	85,593
Building Inspection	918,430	982,869	896,004	980,566
Building Repair	2,758,600	3,154,092	3,833,598	3,159,227
Traffic Striping	255,740	249,784	248,258	242,077
Central Permit	68,591	61,964	63,311	61,441
Engineering	700,255	735,928	675,408	722,282
General Office	335,229	289,513	252,282	252,073
General Office Improvements	2,037,535	1,489,954	1,474,262	793,613
Sewage Pumping Stations	151,343	153,779	137,411	152,438
Sewage Treatment Plants	1,290,545	1,341,965	1,216,835	1,277,922
Sewer Repair	1,247,736	1,259,044	1,332,715	1,323,513
Street Cleaning	2,918,558	2,900,122	2,811,290	2,812,301
Special Gas Tax Street Improvement Fund				
Contractual	394,000	394,000	282,252	267,757
Construction	4,415,600	2,925,812	4,708,547	2,029,958
Bridges, Tunnels & Underpasses	201,132	214,104	188,813	203,003
Road Fund				
Street Repair	1,933,056	1,946,951	1,837,837	1,868,791
Traffic Engineering	973,706	997,697	912,628	987,452
General Maintenance	1,881,160	166,465	966,977	121,237
Engineering-Administrative	195,700	254,364	143,007	252,005
Construction	1,398,115	1,254,128	855,289	877,248
Street Tree Planting	246,283	260,061	228,595	243,510
Street Tree Planting-Improvements	51,700	8,500	11,957	25,415
Sub-total	24,696,162	21,379,790	23,392,113	18,982,239
Less Interbureau budget transfers	321,577	319,970	314,881	312,234
Total	$24,374,585	$21,059,820	$23,077,232	$18,670,005

Expenditures for capital improvements may not necessarily match budget allowances for any one year; allowances may be forwarded from year to year until the project is completed.

DEPARTMENT OF PUBLIC WORKS

CENTRAL PERMIT BUREAU

ORGANIZATION CHART


DEPARTMENT OF PUBLIC WORKS
ASSISTANT DIRECTOR, ADMINISTRATIVE
CENTRAL PERMIT BUREAU
SENIOR MANAGEMENT ASSISTANT 1844 (Supervisor)
PERMIT ISSUANCE
CASH ACCOUNTING, CORRESPONDENCE, & RECORDS
PRINCIPAL CLERK 1408 (1)
SR. CLERK TYPIST 1426 (1)
CLERK TYPIST 1424 (3)
PRINCIPAL CLERK 1408 (1)
SR. CLERK TYPIST 1426 (1)
JR. CLERK TYPIST 1422 (1)
CLERK-STENO. 1444 (1)
TELLER 4320 (2)

CENTRAL PERMIT BUREAU

Sidney Franklin, Supervisor (to Jan. 31, 1964)
Helen Hamilton, Acting Supervisor
Gilbert H.Boreman, Senior Management Assistant (from May 1, 1964)

FUNCTIONS

The principal function of the Central Permit Bureau is the issuance of all permits under the jurisdiction of the Department of Public Works, and the collection of appropriate permit fees and deposits. Included are permits covering each aspect of the erection, alteration, demolition and moving of buildings; permits for all types of billboards and signs; permits involving the use or excavations of streets and sidewalks; and all plumbing, gas appliance, and electrical permits.

It is the duty of the staff of the Central Permit Bureau to receive applications for the various types of permits, and route them to appropriate agencies for processing. When the applications are properly approved, they collect necessary fees and deposits and issue the permits.

The Central Permit Bureau is the custodian of all public records relevant to permits issued by the Department of Public Works, and of all plans and specifications in conjunction with these permits. These records date back to the 1906 Earthquake and are assuming more importance each year in determining the status of buildings affected by our urban renewal program.

Another service performed in this bureau is the assignment of street addresses to all new buildings and the elimination of possible confusion resulting from improper existing numbers. Our official house number records constitute an important source of information for realtors, title insurance companies, and similar activities concerned with the verification of correct street numbers for buildings.

It is also a function of the Central Permit Bureau to receive payments for bills covering claims for damages to property under the jurisdiction of the Department of Public Works, and for costs in excess of deposits in the installation of side sewers. The monies collected from these bills, as well as all other monetary receipts of the Department of Public Works, are cleared through this bureau for deposit in the proper funds in the City Treasury.

PERSONNEL

The personnel of the Central Permit Bureau, as of June 30, 1964, was as follows:

1	Senior Management Assistant
2	Principal Clerks
2	Senior Clerk Typists
2	Tellers
1	Clerk Stenographer
3	Clerk Typists

On January 31, 1964, Mr. Sidney Franklin, Bureau Supervisor, retired after more than thirty-five years of service in the City and County government. Mrs. Helen Hamilton was assigned as Acting Supervisor during the interim period from Mr. Franklin's retirement until the appointment on May 1, 1964 of the current bureau head, Mr. Gilbert Boreman.

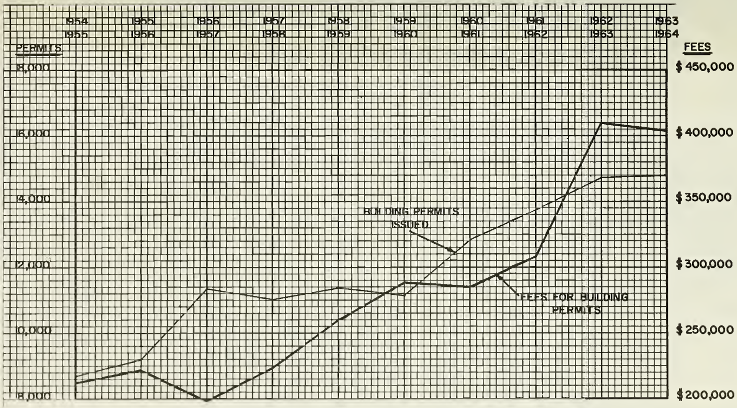


FIGURE I. CORRELATION-BUILDING PERMITS AND FEES

THE FOLLOWING TABLES ILLUSTRATE THE SCOPE OF THE ACTIVITIES OF THE CENTRAL PERMIT BUREAU

TABLE I

PERMITS ISSUED AND FEES RECEIVED

	1963-1964		1962-1963	
	Permits	Fees	Permits	Fees
Buildings	14,824	$ 403,993	14,765	$ 410,442
Billboard	23	101	46	200
Demolition	563	5,232	492	5,280
Boiler Installation	243	1,867	407	2,035
Boiler Inspections	1,187	6,118	902	6,932
*Street Space	1,353	124,771	1,340	139,852
House Numbers	918	3,736	869	3,916
House Moving	29	600	58	1,160
Excavations (Pub. Util. etc.)	14,074	28,148	13,845	27,690
*Excavations (Other)	862	5,194	892	5,826
Flue Registrations	95	1,900	94	1,880
Flues-New Buildings	28	138	45	443
Flues-Old Buildings	132	431	176	614
Flues-New Buildings-Coupons	3,400	1,812	3,650	1,825
Flues-Old Buildings-Coupons	590	1,140	610	1,220
Posting Notices	806	2,056	839	2,173
Flower Markets	41	1,716	46	1,536
Advertising	8	1,446	13	1,584
Surveys	17	9,650	27	13,015
Engineering Inspections	47	16,590	59	21,045
Electrical Inspections	12,892	265,902	13,812	256,822
Sign Inspections	2,258	5,051	Included in Elect. Insp.	4,252
Electrical Sales	2,360	29,959	2,212	28,181
Plan Checking	8,152	154,837	7,529	124,898
Architect's Investigation	31	465	56	840
Garage Door Coupons	1,125	3,375	900	2,700
Hearings for Code Variances	10	100	29	3,070
Hearings for Substitute Materials	5	750	(Included in Code Var.)	
Plumbing Inspections	29,195	178,113	20,625	197,646
Gas Appliance Inspections	(Included in Plbg. Insp.)		(Included in Plbg. Insp.)	
Journeyman Plumbers License	353	706	Included in Plbg. Insp.	2,224
Gas Appliance Dealer	66	660	"	810
Residential Inspection Reports	12	595	16	1,015
Residential Record Reports	7,081	35,405	6,551	32,450
Dump Permits	9	450	7	475
Blasting Permits	4	48	6	72
TOTAL - TABLE I	102,793	$1,293,055	90,918	$1,304,123
TOTAL - TABLES II & III	2,792	$7,327,558	2,809	$7,455,159
GRAND TOTAL - PERMITS & REVENUE	105,585	$8,620,613	93,727	$8,759,282

* Permits and Fees only. See Table II for Refundable Deposits

TABLE II

MISCELLANEOUS DEPOSITS

	1963-1964		1962-1963	
REFUNDABLE DEPOSITS	Permits	Deposits	Permits	Deposits
Street Space	*	$ 24,464	*	$ 25,460
Sub-Sidewalk	42	44,821	46	54,120
Deposit on Plans	2,039	105,581	1,971	71,499
Excavations	*	999	*	1,063
House Move	1	100	-	-
TOTAL	2,082	$175,965	2,017	$152,142
* Street Space and Excavations require both a Fee and a Deposit. Amounts shown are Deposits only.				
PARTIALLY REFUNDABLE DEPOSITS				
Side Sewers	560	$321,225	613	$338,900
Excess Costs	60	8,811	60	12,612
AMOUNT REFUNDED		145,559		129,045
New Revenue to be Applied to Installation Costs		184,477		222,467
AGENCY DEPOSITS				
Street Improvement Bonds	90	11,539	119	14,278
TOTAL	2,792	$517,540	2,809	$517,932

TABLE III

MISCELLANEOUS REVENUE

	1963-1964 Revenue	1962-1963 Revenue
General Fund	$ 73,345	$ 366,944
Road Fund	3,517,937	2,771,868
Highway Trust Fund	20,647	18,220
Special Gas Tax - Street Improvement Fund	3,195,798	3,771,664
1954 Sewer Bond Fund	1,000	1,505
Refundable Deposit - Side Sewer 912.3 Fund	1,099	261
Litter Control Fund	192	234
1944 Sewer Bond Fund	-	3,540
1960 Sewer Bond Fund	-	2,690
Repair Defective Sidewalk Fund	-	301
TOTAL	$6,810,018	$6,937,227

TABLE IV

STATEMENT OF CONDITION
SPECIAL FUNDS AS OF JUNE 30, 1964

	Balance June 30, 1963	Deposits 1963-1964	Refunds 1963-1964	Balance June 30, 1964
Special Permit Fund (Street Space and Sub-Sidewalk Deposits)	$111,525.00	$ 72,111.70	$28,880.00	$154,756.70
Street Improvement Fund (Payments of Street Improvement Bonds)	465.27	-	-	465.27
Excavation Fund	2,209.80	907.00	686.00	2,430.80
Deposits on Plans	14,472.00	104,139.79	86,069.29	32,542.50
House Moving	-	100.00	-	100.00

APPENDIX I

BUREAU OF ENGINEERING CURRENT CONTRACT DATA SUMMARY

Showing All Contract Work Awarded or Underway

July 1, 1963 - June 30, 1964

Table	Type of Construction	Contracts Awarded No.	Contracts Awarded Aggregate Value	Amount Expended Fiscal Year 1963 - 1964
A	Major Thoroughfares	2	$ 532,940.00	$ 777,596.18
B-1	Streets - Private Contracts	19	108,560.00	323,580.32
B-2	Streets - Assessment Proceedings	7	230,900.31	455,660.63
B-3	Streets - Public Contract City Pay	10	394,434.04	564,368.22
C	Traffic Signals and Channelization	4	130,814.88	88,172.08
D-1	Sewers Pipe - Vitrified Clay and Concrete	6	369,948.22	370,946.52
D-2	Sewers - Concrete Monolithic	2	670,450.00	1,375,951.51
E	Recreation and Park	27	2,002,399.37	821,563.46
F	Miscellaneous	40	1,583,495.64	692,249.04
	TOTALS	117	$6,023,942.46	$5,470,087.96

APPENDIX I

BUREAU OF ENGINEERING CURRENT CONTRACT DATA SUMMARY

On the following pages appear separate tables of Current Contracts for each of the types of construction listed above. The source of the funds used to finance each project is indicated in the Tables according to the following:

Abbreviation Legend

Legend	Description of Fund
GEN	General Fund City and County
SRd	Special Road Improvement Fund
MS	Special Gas Tax Improvement Fund
AP	Assessed to Property Benefiting Under the Street Improvement Ordinance of 1934
PPO	Cost Borne by Property Owners Under Private Contract
44SB	Bond Issue Voted by Citizens on November 7, 1944 - $12,000,000
47SIB	Bond Issue Voted by Citizens on November 4, 1947 - $22,850,000
48STB	Bond Issue Voted by Citizens on June 1, 1948 - $15,000,000
54SB	Bond Issue Voted by Citizens on June 8, 1954 - $12,645,000
60SB	Bond Issue Voted by Citizens on November 8, 1960 - $12,500,000
47OSP	Bond Issue Voted by Citizens on November 4, 1947 - $5,000,000
54LHB	Bond Issue Voted by Citizens on November 2, 1954 - $5,475,000
DE	Department of Electricity Funds
MR	Municipal Railway Funds
RecP	Recreation Park Department Funds
HJu	Bond Issue Voted by Citizens on June 5, 1956 - $19,475,000
WD	Water Department Funds
PGE	Pacific Gas and Electric Company Funds
WP	Western Pacific Funds
SP	Southern Pacific Funds

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 A - MAJOR THOROUGHFARES

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETION DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Evans Avenue (Reconstr. & Constr. R.R. Bridge) M & K Corporation	8-29-62	98%	$851,324.00	$646,560.00	MS 44SB
McLaren Park Roads (Construction of) The Fay Improvement Company	9-12-62	9-20-63	322,466.18	131,036.18	SRd
Great Highway Extension Sloat Blvd. to Skyline (Construction) Bragato Paving Company	6-12-64	0	329,479.00	0	SRd MS
Bush Street Widening Van Ness Ave. - Kearny St. (Reconstruction) The Fay Improvement Company	6-10-64	0	203,461.00	0	SRd MS
Total Awarded or Expended During Fiscal Year			$532,940.00	$777,596.18	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964

B-1 STREETS, PRIVATE CONTRACTS PAID BY PROPERTY OWNERS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Alder Street - Ankeny 225' N. Harkness The Fay Improvement Co.	Gr	12-19-58	Cancelled	$ 2,000.00
14th Avenue - 100' - 400' N. Rivera A. Malerbi Sand	Gr	8-14-59	0	5,000.00
Rolph Street - Crocker Amazon #3 Gellert Bros.	Gr S-C-P Splwy	3-30-60	5-13-64	9,750.00
33rd Avenue (E. SW) - Noriega St. 93' S Herbst Nor. Prop.	P B	8-17-60	6-30-64	1,000.00
Vista Francisco - Subdivision #1 Gellert Bros.	C-S-P Ltg	8-22-62	4-24-64	131,000.00
Sunnydale Green Subdivision & Schwerin St. Eichler Homes, Inc.	C-P Ltg	9-21-62	99%	91,000.00
Quint Street - Davidson Ave. - Rankin St. Washington Packing Corp.	Sp Tr	12-12-62	0	6,500.00
Burrows Street - Hamilton St. - Bowdoin St. Villa Portola, Inc.	Gr	2-1-63	5-13-64	6,600.00
Mendosa Avenue & Gateway Court Chas. L. Harney, Inc.	S-C-P-SW	2-20-63	8-26-63	26,434.00
Sonora Lane - S/O'Farrell St. Joseph S. Quan	Pull Box	3-6-63	6-30-64	500.00
*University Street (E/2) Olmstead - Mansell The Fay Improvement Co.	S-C-P	4-24-63	1-14-64	9,000.00

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 B-1 STREETS, PRIVATE CONTRACTS PAID BY PROPERTY OWNERS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Diamond Heights - Units II & III P & Z Co.	S-Dr	3-11-63	10-28-63	$257,976.00
		- - - -		- - - - - -
Mendosa Avenue N/E'ly 30' ± S & Q Construction Co.	S	8-28-63	90%	600.00
Burrows Street between Hamilton & Bowdoin Sts. The Fay Improvement Co.	C-S-P	10-2-63	2-21-64	10,600.00
Morse Street The Fay Improvement Co.	S	10-2-63	10-29-63	3,500.00
Gilbert Street Lowrie Paving Co.	Sp Tr	10-2-63	11-1-63	9,000.00
Felton & Dartmouth Streets Engstrom & Nourse	S	10-4-63	12-16-63	700.00
Stanford Heights Avenue Vignati - Norgard	G	10-4-63	3-3-64	5,000.00
Brotherhood Way Tronoff Engrs. & Planners	Gr-P	10-25-63	3-10-64	10,000.00
Lobos Street & Caine Ave. Frank Construction Co.	Gr-S-P	11-1-63	50%	19,500.00
S.W. Corner Division Street & Bryant St. Lowrie Paving Co.	C-S	11-15-63	12-11-63	500.00
Middle Point Road W.P. Road - Evans Ave. Lowrie Paving Co.	P	12-4-63	12-20-63	6,200.00
Mt. Sutro Woods - Subdivision No. 1 The Fay Improvement Co.	S	12-11-63	3-5-64	7,300.00

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964

B-1 STREETS, PRIVATE CONTRACTS PAID BY PROPERTY OWNERS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Indiana & Marin Streets Inter. Cargill, Inc.	S	12-11-63	4-28-64	$ 600.00
Stanford Heights - Los Palmos Dr. The Fay Improvement Co.	S-C-P	12-18-63	3-11-64	12,300.00
Erie Street Pacific Pvts. Co., Ltd.	P	1-3-64	1-13-64	1,200.00
Ingerson Avenue - Coronado - Griffith Sts. Thompson & Wallace	S	1-15-64	0%	2,800.00
Aquavista Way - S/Marview Way Gellert Bros.	S	3-18-64	3-23-64	1,210.00
Brotherhood Way S/Side Access Road Arthur Haskins, Inc.	S	3-18-64	4-28-64	600.00
Miller Place The Fay Improvement Co.	G-S-C-P	4-15-64	6-23-64	11,950.00
Mendosa Avenue & Gateview Court Alameda Homes Corp.	Gr-P	5-22-64	80%	5,000.00
Total Awarded During Fiscal Year				$108,560.00
Total Value of Work Done During Fiscal Year				$323,580.62

*Remaining Portion Improved Under Public Contract

S = Sewers
Gr = Grading
C = Curbs
Sp Tr = Spur Track
P = Paving
SW = Sidewalk
Ltg = Lighting
Dr = Drainage

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 B-2 STREET ASSESSMENT PROCEEDINGS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
10th Avenue - Quintara - Mendosa Chas. L. Harney, Inc.	Gr-S-C-P	5-16-62	7-17-63	$ 17,824.78 (10,918.46)
16th Street - 7th St. - 3rd St. 16th Street - 3rd St. - Illinois St. 6th Street - 16th St. 300'± NWly Chas. L. Harney, Inc.	Gr-S-C-P-SW	7-25-62	10-18-63	302,957.92 (133,935.54)
Toland Street - McKinnon Ave. - Oakdale Ave. Chas. L. Harney, Inc.	G-S-C-P	10-10-62	8-23-63	25,172.92 (0)
Jerrold Avenue - Quint - Rankin Pacific Pvts. Co., Ltd.	Gr-S-C-P	8-2-63	9-16-63	8,126.00 (0)
Velasco Avenue - Calgary - Schwerin St. Velasco Avenue - Castillo - Calgary Schwerin Street - Velasco Ave. - Relloch Ave. The Fay Improvement Co.	Gr-S-C-P	8-2-63	2-27-64	155,941.43 (113,968.88)
Day Street - Castro St. & its W'ly Terminus Healy Tibbits Construction	Gr-S-C-P	9-6-63	4-4-64	26,721.25 (17,991.72)
Salinas Avenue - Third St. - Jamestown Ave. Pacific Pvts. Co., Ltd.	Gr-C-P-SW	12-18-63	2-14-64	5,125.00 (3,250.00)
Burrows & Bowdoin Streets The Fay Improvement Co.	Gr-C-P	3-4-64	4-7-64	1,052.13 (0)

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 B-2 STREET ASSESSMENT PROCEEDINGS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Ogden Avenue - Banks - Folsom Sts. O.C. Jones & Sons	Gr-C-P	5-1-64	90%	$ 3,088.00 (2,050.00
Ingerson Ave., Gilroy St., Ignacio Ave. - Griffith St. U. Peira & Son	Gr-S-P-SW	5-1-64	0	30,846.50 (10,600.00
Total Awarded During Fiscal Year				$230,900.31
Total Value Work Done During Fiscal Year				$455,660.63

( ) = Estimated or Final Amount of City Obligation.
Balance Through Assessment of Property Benefited.
City Funds From Special Road Improvement Fund.

S = Sewers C = Curbs P = Paving
Gr = Grading SW = Sidewalk

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 B-3 STREETS - PUBLIC CONTRACT - CITY PAY

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Hotaling Place (Pav. Reconstr. & Sewer Repl.) Between Washington & Jackson Lowrie Paving Co.	8-1-62	7-19-63	$ 25,134.96	$ 25,134.96	Hot.Pl. Impr.Gp. Spec. Rd. 54SB
Western Addition Redevelopment Project (Pav. Reconstr. & St. Resurfacing) Area A-1 Pacific Pvts. Co., Ltd.	1-23-63	6-28-63	62,307.47	6,507.47	SRd
Mallorca Way (Pavement Reconstruction) Beach to Alhambra Sts. Pacific Pvts. Co., Ltd.	4-17-63	8-28-63	20,086.15	20,086.15	SRd
*University Street (W1/x ½) (Grading, Sewers, Curbs & Paving) Olmstead to Mansell The Fay Improvement Co.	5-1-63	1-16-64	7,438.50	7,438.50	SRd
Albion Street (Pvt. Reconstruction) 16th to 17th Sts. Pacific Pvts. Co., Ltd.	5-1-63	8-14-63	20,475.13	20,475.13	SRd
Hudson, Innes, Jerrold & Kirkwood Aves. & Rankin, Selby & Toland (St. Reconstr. & Related Work) Lowrie Paving Co.	5-1-63	9-27-63	193,074.24	176,964.24	SRd
	- - - -		- - - - - -		
North Point Street (Pavement Reconstruction) Between Broderick & Divisadero Sts. Pacific Pvts. Co., Ltd.	7-17-63	11-26-63	18,905.35	18,905.35	SRd
Lombard Street (Pvt. Reconstr.) Between Polk & Larkin Sts. The Fay Improvement Co.	8-14-63	10-18-63	14,864.03	14,864.03	SRd

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964   B-3 STREETS - PUBLIC
CONTRACT - CITY PAY

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Sixteenth Street (Turnaround Constr.) East of Roosevelt Way Pacific Pvts. Co., Ltd.	9-4-63	12-4-63	$ 5,923.40	$ 5,923.40	SRd
Great Highway & Other Streets (Street Resurfacing) Bragato Paving Co.	9-13-63	1-28-64	86,786.94	86,786.94	MS
Twenty-fifth Street (Pvt. Reconstruction) Between Noe & Sanchez Sts. Lowrie Paving Co.	10-15-63	2-3-64	20,743.56	20,743.56	SRd
Farmers Mkt. Exit Road Widening & Pvt. on Putnam St. (Pvt. Reconst. & Tr. Island) Lowrie Paving Co.	1-3-64	2-21-64	4,550.88	4,550.88	GEN
Judson Ave. Widening (Cont. #1) (Phelan Ave. to Forester St.) Lowrie Paving Co.	1-22-64	5-8-64	25,600.08	25,600.08	
Mission Street & Other Streets (St. Resurfacing)	2-14-64	5-11-64	90,517.53	90,517.53	MS
Vallejo Street (Pvt. Reconstr. & Sewer Repl.) Between Powell & Mason Sts. The Fay Improvement Co.	3-27-64	86%	26,621.27	22,770.00	GEN
Western Addition Redevelopment Area A-1 (Pavement Reconstruction) Lowrie Paving Co.	4-29-64	19%	99,921.00	17,100.00	SRd
Total Awarded or Expended During Fiscal Year			$394,434.04	$564,368.22	

* Remaining Portion Improved Under Private Contract

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 C - TRAFFIC SIGNALS AND CHANNELIZATION

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Western Addition Redevelopment Area A-1 (St. Light., Traffic Signal, & Related Work) R. Flatland Co.	8-14-63	5-1-64	$ 70,806.20	$ 70,806.20	SRd
Redevelopment Project Area B-1 (Relocation of St. Lights) Diamond Heights Pratt Electric Co.	8-21-63	10-18-63	1,963.00	1,963.00	GEN
Traffic Signals at Various Intersections (Contract #4 - Modification) Reco Electr. Contr., Inc.	10-23-63	6-24-64	15,402.88	15,402.88	SRd
Franklin and Gough Streets Traffic Signal Installation Emsco Electric Corp.	6-12-64	0	42,642.80	0	MS & SRd
Total Awarded or Expended During Fiscal Year			$130,814.88	$ 88,172.08	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 D-1 SEWERS - PIPE - VITRIFIED CLAY AND CONCRETE

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Lake Merced Pumping Station (Force Main & Inter. Sewer) Prodanovich, Inc.	11-14-62	7-12-63	$156,093.71	$ 17,133.71	60SB
26th Street (Replace Sewer) Sanchez to Church Sts. The Fay Improvement Co.	4-17-63	7-16-63	26,225.59	5,075.59	60SB
	- - - -		- - - - - -		
N.P.C.S. Sect. B-3C (Drumm St. Pumping Sta. Force Main & Sewer Constr.) Washington St. - Drumm St. to Sansome St. Mitchell Plumbing Co.	8-16-63	4-17-64	109,900.48	109,900.48	54SB
Crescent Avenue (Sewer Constr.) Folsom St. to Alemany Blvd. McGuire & Hester	10-11-63	2-10-64	50,415.55	50,415.55	GEN
Alabama Street (Sewer Replacement) Army St. to Precita Ave. M & K Corp.	12-11-63	4-2-64	27,642.90	27,642.90	60SB
Redevelopment Project Area E-1 (Pipe Sewers in Various Locations) Glanville Const. Co.	1-29-64	6-4-64	147,829.30	147,829.30	GEN
Twin Peaks Boulevard (Drainage Interceptor) Above Aquavista Way Lowrie Paving Co.	2-19-64	5-8-64	12,948.99	12,948.99	SRd
19th Avenue (Sewer Construction) At S.F. State College	4-29-64	0	21,211.00	0	GEN
Total Awarded or Expended During Fiscal Year			$369,948.22	$370,946.52	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 D-2 SEWERS - CONCRETE MONOLITHIC

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
N.P.C.S. Sect. C-1 (Constr.) William R. Cole	1-17-62	11-29-63	$323,336.99	$ 97,616.99	54SB
N.P.C.S. Sect. C-2B (Constr.) M. J. Lynch	6-13-62	6-5-63	168,751.70	17,101.70	54SB
N.P.C.S. Sect. B-3A (Pumping Station) Drumm St. S & Q Constr. Co.	11-21-62	68%	477,777.00	303,570.00	54SB
Lake Merced Sewage Pumping Sta. (Construct) Fullerton Constr. Co.	1-16-63	99%	237,000.00	150,840.00	60SB
N.P.C.S. Sect. D-3 (Construction of) M & K Corp.	2-27-63	1-17-64	450,033.84	372,543.84	54SB
N.P.C.S. Sect. B-4 (Diversion & Outfall Str.) Jackson St. Baldwin, Erickson & Tait	5-1-63	9-10-63	14,789.78	14,789.78	54SB
Bush Street (Guniting Sewer) Leavenworth - Jones Taylor - Stockton	6-14-63	4-7-64	17,729.20	17,729.20	GEN
N.P.C.S. Sect. B-3B (Sewer Construction) Washington St. - Embarcadero to Davis St. Drumm St. - Commercial to Washington Walter Lenkeit	9-11-63	53%	298,645.00	142,110.00	54SB & 60SB
Redevelopment Proj. Area E-1 (G. Gateway) (Sewers - Clay, Battery & Front Sts.) M & K Corp.	10-2-63	76%	371,805.00	259,650.00	54SB
Total Expended or Awarded for Fiscal Year			$670,450.00	$1,375,951.51	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Various Playgrounds 418/ (Resurface) Malott & Peterson - Grundy	12-19-62	9-18-63	$ 41,453.30	$ 8,414.30	Budget
Fleishhacker Playfield (Repl. Htg. Syst. 423/5190) Mothers' Bldg. Aladdin Htg. Corp.	3-20-63	11-20-63	8,087.43	8,087.43	Budget
San Francisco Zoo (Replace 420/5228) Chain Link Fence U.S. Steel Corp.	4-17-63	9-20-63	11,505.32	11,505.32	Budget
Various Recreation Centers (Seal) 428/5242 Gym Floors ABC Hardwood Floor Co.	5-1-63	8-6-63	7,936.04	1,906.04	Budget
McLaren Park (Improvement) 425/5265 Piombo Constr. Co.	5-15-63	98%	309,525.31	295,920.00	Bond
Golden Gate Park (Painting) 430/5266 Merry-Go-Round A. Quandt & Sons, Inc.	5-15-63	1-29-64	3,363.00	3,363.00	Budget
Aquatic Park (Misc. Repairs) 435/ Robt. L. Sage	5-29-63	10-5-63	9,897.00	9,897.00	Budget
Strawberry Hill Reservoir (Install Overflow) 419/433 Mitchell Plumbing Co.	5-29-63	8-28-63	6,695.00	6,695.00	Budget
Hamilton Recreation Center (Seal) 436/ Floors Martin Fried, Inc.	6-5-63	9-27-63	2,460.40	2,460.40	Budget
Fleishhacker Zoo (Rehabil. of Heating System) Aviary & Lion House Apex Sheet Metal Works	7-3-63	2-28-64	13,833.00	13,833.00	Budget

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Crocker Amazon Playground (Screening of Grandstand Windows) Michel & Pfeffer Iron Works	7-5-63	9-5-63	$ 2,795.00	$ 2,795.00	Budget
Fleishhacker Pool Area (Phase 2) & Pump House (Alt. & Rehab. of Elec. Services) Ets-Hokin & Galvin, Inc.	8-2-63	12-9-63	19,428.00	19,428.00	Budget
Eureka Valley & Ocean View Recreation Centers (Seal Gymnasium Floors) ABC Hardwood Floors	8-21-63	10-29-63	3,161.00	3,161.00	Budget
San Francisco Zoological Gardens Orangutan Grotto DeNarde Constr. Co.	9-13-63	99%	119,400.00	110,610.00	GEN
Strybing Arboretum (Chain Link Fence) U.S. Steel Corp.	9-25-63	1-17-64	12,016.50	12,016.50	Budget
Golden Gate Park Stadium (Resurfacing) Running Track Pacific Pvts. Co., Ltd.	10-16-63	1-8-64	2,200.00	2,200.00	Budget
Sharp Park Golf Course, Pacifica (Dredging of Lagoon Channel) McGuire & Hester	10-16-63	1-8-64	3,420.00	3,420.00	Budget
Eureka Valley Recreation Center (Glazing) Atlas Glass Co.	10-30-63	1-9-64	2,542.18	2,542.18	Budget
Marina Small Craft Harbor (Dem., Exc., Fill, Grading, Dredging, Pvt. & Brk. Wt.) Peter Kiewit Sons Co.	11-22-63	25%	570,231.00	129,330.00	GEN
Marina Small Craft Harbor (Floats, Gangway, Pilings, Water, Electr., & Lt.) Duncanson-Harrelson Co.	11-22-63	1%	586,932.00	2,610.00	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Harding Park Golf Course Clubhouse (Repl. of Domestic Water Main) Assoc. Pipeline, Inc.	12-4-63	1-17-64	$ 11,398.85	$ 11,398.85	Budget
Golden Gate Park Conservatory (Repl. Lathhouse Benches, Walls & Paths) Antone Petersen & Sons	1-3-64	5-14-64	17,599.00	17,599.00	GEN
Replacement of Chain Link Fencing @ 4 Locations Anchor Post Prod. of Calif.	1-24-64	5-8-64	8,377.00	8,377.00	GEN
Hamilton Annex Recreation Area Phase I Gravelle & McConnell, Inc.	2-5-64	0	115,511.00	0	GEN
Fleishhacker Playfield (Convenience Station) Mitchell Plumbing Co.	2-5-64	4-30-64	3,902.00	3,902.00	Budget
Sharp Park Golf Course (Rdwy Reloc., Fairway, Tee & Green) Gravelle & McConnell, Inc.	2-14-64	62%	195,559.00	108,540.00	GEN
Resurfacing Paths & Playgrounds The Fay Improvement Co.	4-3-64	44%	44,599.40	17,730.00	GEN
Aquatic Park Municipal Pier Repair Spalled Concrete Mastercraft Tile Co.	4-10-64	6-18-64	3,822.44	3,822.44	Budget
San Francisco Zoological Gardens Zoo Alarm System Elect. Constr. & Sales	4-29-64	0	10,904.00	0	Budget
Sutro Heights Park Gunite West Slope Johnson Western Gunite Co.	4-29-64	0	21,020.00	0	Budget
Sharp Park Golf Course Lagoon Channel Pipe Arch Gravelle & McConnell, Inc.	4-29-64	0	1,787.00	0	Budget

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
San Francisco Zoo Cages & Paddock Fencing Gerrell Enterprises	5-22-64	0	$ 4,488.00	$ 0	Budget
San Francisco Zoo Roads & Paths Pacific Pvt. Co., Ltd.	5-22-64	0	6,048.00	0	Budget
Rossi & Hamilton Swimming Pools Patching & Painting Robert L. Sage	5-27-64	0	7,430.00	0	Budget
McLaren Park Playground & Maintenance Yard Construction of Martinelli Constr. Co.	6-19-64	0	195,100.00	0	1955 Bond
Light Fixtures at 5 Locations Grandi Electric Co.	6-19-64	0	18,895.00	0	1955 Bond
Total Awarded or Expended During Fiscal Year			$2,002,399.37	$821,563.46	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Laguna Honda Home (Vents in Laundry) Apex Sheet Metal Works	9-12-62	2-28-64	$ 23,927.00	$ 2,867.00	GEN
Junipero Serra Blvd. (Repl. Irri. System) Ocean to Holloway Ave. Geo. E. McFarland	11-21-62	8-23-63	33,375.75	9,075.75	SRd
N.P.S.T.P. (Impr. Spray Water System) H. Goldman & Sons	1-23-63	7-18-63	29,252.40	4,502.46	60SB
Log Cabin Ranch (Sewage Treatment Plant) Dennis R. Gibson Co.	1-30-63	4-24-64	36,123.20	11,373.20	GEN
Laguna Honda Home (Soft Water Supply System) Power Plant DeNarde Constr. Co.	2-1-63	7-12-63	31,910.00	4,010.00	Bldg. Rep. General
S.F. County Jail #2 (Repair Elevator #2) Otis Elevator Co.	2-6-63	7-31-63	7,488.00	1,188.00	Bldg. Rep.
N.P.S.T.P. (Light Fixtures) Elec. Constr. & Sales Co.	2-6-63	12-18-63	5,460.00	3,345.00	60SB
Public Library - Main (Repair Elevators) Otis Elevator Co.	2-13-63	9-27-63	11,618.00	11,618.00	GEN
#460 McAllister St. (Impr. of Exist. Air Conditioning) Aladdin Heating Co.	2-20-63	9-13-63	5,323.00	1,003.00	GEN
Calif. Palace Legion of Honor (Impr. Foyer Lighting) Lincoln Park Casella Lighting Co.	2-27-63	7-31-63	3,701.88	551.88	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Clarendon Avenue (Constr. Sidewalk) Lincoln Way to Buena Vista Ave. Kunz Paving Co.	3-6-63	8-2-63	$ 14,750.86	$ 14,750.86	SRd
Telegraph Hill Area (St. Lighting & Fire Alarm System) Underground Dist. #169 Ecco-Phoenix Electr. Co.	3-20-63	11-5-63	26,487.34	18,747.34	GEN
Sunset Boulevard (Landscaping) Irving St. to Sloat Blvd. West Bay Landscaping	4-10-63	9-1-63	8,247.94	8,247.94	SRd
Marina Sewage Pumping Station (Replace Valves Eff. & Inf. Lines) Mitchell Plumbing Co.	4-24-63	2-21-64	37,100.00	37,100.00	60SB
Post St., Geary Blvd. & O'Farrell (St. Lights) Franklin to Van Ness Abbett Electr. Corp.	4-17-63	8-23-63	12,924.00	2,754.00	SRd
Sunset Boulevard (Lighting) South Dr. to Lake Merced Blvd. Abbett Electr. Corp.	5-1-63	4-6-64	107,912.22	107,912.22	SRd
Lombard Street (Install St. Lights) Van Ness to Hyde St. Bay Western Elect. Constr.	5-15-63	10-28-63	7,388.00	7,388.00	SRd
Winston Drive (Constr. SW) Lake Merced Blvd. - 740 E Piera & Son	6-12-63	11-15-63	1,691,41	1,691.41	SRd
San Jose Avenue (Slide Repairs) Miguel - Mateo Emsco of San Francisco	6-17-63	7-3-63	6,762.60	6,762.60	SRd
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APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Islais Creek Bridge (S.E. Fender Repair) 3rd St. near Tulare St. Duncanson-Harrelson Co.	7-12-63	9-23-63	$ 1,694.00	$ 1,694.00	MS
Hassler Health Home (Main Access Rd. - Slide Repairs) San Mateo County Kunz Paving Co.	7-19-63	10-31-64	10,695.30	10,695.30	SRd
Branch Libraries (Lighting Fixture Replacement) Chinatown, Noe Valley & Park Electr. Constr. & Sales Co.	7-19-63	1-9-64	25,219.67	25,219.67	GEN
Candlestick Park Stadium (Painting Scoreboard Housing & Framework) Chevron Painting Co.	7-19-63	9-20-63	2,430.00	2,430.00	GEN
City Hall Roof Flood Lights (Replacement of Switchgear & Lighting) Pratt Electric Co.	7-19-63	80%	5,895.00	4,230.00	GEN
Richmond-Sunset Sewage Treatment Plant (Alterations of Sludge Digestion Facilities) C. Norman Peterson Co.	8-9-63	99%	89,753.00	80,550.00	60SB
Pennsylvania Ave. & Army St. (Hydrant Relocations) A.W.S.S. Associated Pipe Lines, Inc.	8-21-63	11-23-63	7,567.20	7,567.20	GEN
Candlestick Park Stadium (Panel Screens on Upper Level Handrails) Iron Fab., Inc.	8-21-63	12-5-63	9,942.00	9.942.00	GEN
Division St. Auxiliary Sewer Sect. "B" & "D" (Test Borings) J. N. Pitcher Co.	9-6-63	11-7-63	1,850.30	1,850.30	60SB

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Nineteenth Ave. at S.F. State College (Slide Repair) E. C. Anderson, Inc.	10-2-63	1-9-64	$ 4,750.00	$ 4,750.00	SRd
Auxiliary Fire Alarm Systems for Various Schools (Contract #2) Ets-Hokin & Galvan	10-23-63	90%	9,498.00	7,650.00	1956 School Bond
Gilman Avenue (Expressway Landscaping) Griffith St. to Hunters Pt. Sacramento Landscapers, Inc.	10-30-63	99%	13,494.00	9,630.00	SRd
Sunset Boulevard (Irrigation System Repl. & Related Work) Lincoln Way to Lawton St. Christner Plumbing Co., Inc.	11-8-63	4-23-64	54,725.95	54,725.95	SRd
Golden Gate Avenue (Street Lighting & Related Work) Area of State & Federal Office Bldgs. Emsco Electric Co.	11-8-63	5-5-64	30,600.35	30,600.35	SRd
Franklin St. Tree Planting Calif. St. to Broadway A. & J. Shooter, Inc.	11-8-63	3-3-64	3,673.50	3,673.50	SRd
City Hall - Offices of Board of Supervisors (Heating, Cooling & Vent. Syst.) R & J Sheet Metal Co.	11-13-63	5-11-64	8,041.00	8,041.00	GEN
Laguna Honda Home (Electr. Service) Brayer Elect. Co.	12-4-63	3-6-64	2,250.00	2,250.00	Budget
Myrtle & Ellis Streets (St. Lighting & Related Work) Bay Area Elect. Corp.	12-6-63	4-29-64	9,263.40	9,263.40	SRd

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Webster Street (St. Lighting) G.G. Ave. to O'Farrell St. Emsco Elect. Corp.	12-18-63	3-20-64	$ 4,332.71	$ 4,332.71	SRd
S.E.S.T.P. (Sludge Dewatering System) C. Norman Peterson Co.	12-20-63	37%	45,885.00	15,300.00	60SB
R.S.S.T.P. (Modif. to Water Supply System) C. Norman Peterson Co.	12-27-63	76%	44,884.00	31,140.00	60SB
Goettingen Street (Stairway Constr.) Sergio J. Nibbi	12-27-63	4-23-64	6,609.00	6,609.00	SRd
Eureka Valley Public Parking Facility (Castro St. - 17th to 18th) O. C. Jones & Sons	2-5-64	98%	16,030.00	13,950.00	GEN
Thomas Moore Way, Brotherhood Way (St. Lighting & Fire Alarm) Bay Western Electr. Constr.	2-19-64	5-27-64	4,686.00	4,686.00	General
Washington Street - Maple to Locust Sts. (St. Lighting & Fire Alarm) Steiny & Mitchell, Inc.	3-6-64	7%	12,753.00	0	SRd
City Hall - Treasurer & Tax Collector Offices (Alarm Systems) Herman Safe Co.	3-6-64	20%	8,635.00	0	GEN
S.E.S.T.P. (Sludge Dig. Fac. & Tank #7) Mitchell Plumbing Co.	3-6-64	35%	57,497.00	18,450.00	60SB
S.E.S.T. Plant Reconstr. Grit Screening C. Norman Peterson Co.	3-20-64	16%	291,959.00	42,570.00	60SB

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
Geary Boulevard Public Parking Facilities Parking Lot Lowrie Paving Company	3-20-64	99%	$ 11,561.00	$ 10,620.00	GEN
Outer Irving Street Public Parking Facility Parking Lot O. C. Jones & Sons	3-27-64	65%	12,250.00	7,560.00	GEN
Richmond Sunset S. T. Plant Sunset Pump Sta. Modifications Fred J. Early Co., Inc.	4-8-64	0	243,470.00	0	60SB
Van Ness Avenue - McAllister to O'Farrell Sts. Center Island Landscaping R. B. Gregory	4-20-64	59%	13,740.76	7,380.00	SRd
Candlestick Park Stadium Painting 2 Light Towers D. E. Burgess Co.	5-6-64	0	4,920.00	0	GEN
Sidewalks at Various Locations Construction Annuzzi Concrete Service	5-6-64	0	5,862.50	0	GEN
Tenth Ave. - South Quintara St. Retaining Wall Extension Love & Haun	5-15-64	0	3,480.00	0	SRd
Fourth St. Bridge Structural Repair Baldwin Erickson & Tait	6-3-64	0	104,883.00	0	MS
S.E.S.T. Plant - Repairing & Painting Water Tank & Structure Gores Tank & Steeplejack Co.	6-12-64	0	8,200.00	0	GEN
Twin Peaks Boulevard near Portola Drive (Retaining Wall & Slope Stabilization) Annuzzi Concrete Service	6-17-64	0	10,885.00	0	SRd

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1963-1964 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1963-1964	FUND
West Portal Public Parking Facility Constr. Parking Lot Lowrie Paving Company	6-17-64	0	$ 11,022.00	$ 0	GEN
S.E. Sewage Tr. Plant Sludge & Scum Handling Alteration C. Norman Peterson Co.	6-24-64	0	348,732.00	0	60SB
Telegraph Hill - St. Lighting & Fire Alarm Fac. Underground Dist. #169 - Stages #2 & #3 Abbett Electr. Co.	6-26-64	0	19,876.00	0	SRd
Total Awarded or Expended During Fiscal Year			$1,583,495.64	$692,249.04	

APPENDIX II

BUREAU OF ARCHITECTURE
CURRENT CONTRACT DATA SUMMARY
Showing All Contract Work Awarded or Under Construction
July 1, 1963 - June 30, 1964

Table	Type of Construction	Contracts No.	Awarded Aggregate Value	Amount Expended Fiscal Year 1963-1964
A-1	New School Construction	0	$ 0	$ 381,716.00
A-2	Misc. Alterations-Schools	46	855,349.00	1,228,918.00
A-3	Acoustical Jobs	2	5,061.00	4,575.00
A-4	Roofing Jobs	14	79,830.00	80,080.00
A-5	Resilient Flooring	1	1,813.00	1,813.00
A-6	Int. & Ext. Painting	17	235,266.00	236,153.00
A-7	Yard Paving	4	50,579.00	37,867.00
B-1	Fire Dept.-New Construction	0	0	44,843.00
C-1	S. F. General Hospital	6	1,518,831.00	252,366.00
C-2	Laguna Honda Hospital	1	129,562.00	119,233.00
C-3	Health Center Building	0	0	12,890.00
D	De Young Museum	3	1,742,218.00	15,249.00
E	Youth Guidance Center	1	16,260.00	9,756.00
F	Civic Center	10	411,063.00	2,735,985.00
H	Miscellaneous	28	7,597,186.00	468,550.00
	Totals	133	$12,643,018.00	$5,629,994.00

On the following pages appear separate tables of current contracts for each of the types of construction listed above. The source of the funds used to finance each project is indicated in the tables according to the following:

Abbreviation Legend

Designation	Description of Fund
General	General Fund City and County
1956 School	Unified School District Bond Issue voted by citizens on November 6, 1956 $27,000,000.
District	Funds of S.F. Unified School District

Child Care	S. F. Unified School District, Special Fund.
1954 Hospital	Hospital Bond Issue voted by citizens on November 2, 1954, $5,830,000.
Def. Maint.	S. F. Hospital Annual Budget.
Maint. and Repair	Laguna Honda Hospital Annual Budget.
1960 Museum	De Young Museum Bond Issue voted by citizens on June 7, 1960, $2,725,000.
1960 Aud.	Civic Auditorium Bond Issue voted by citizens on November 3, 1959, $7,575,000.
1958 Rec. Park	Recreation and Park Bond Issue voted by citizens on June 3, 1958, $1,575,000.
1955 P & RC	Recreation and Park Bond Issue voted by citizens on November 8, 1955, $7,248,000.
Road Fund	1962-1963 Road Fund Appropriation.
Roof Repairs - Phase II Improvements	Recreation and Park Department Budget Funds
1959 Bond	Recreation and Park Bond Issue voted by citizens on November 3, 1959, $1,800,000.
Private	Private donation.
State Fund	State of California funds.

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
A-1 NEW SCHOOL CONSTRUCTION					
Southeast High School (1916) General Construction M & K Corp.	12-2-60	7-23-63	$4,324,000	$ 432	1956 School
Lowell High School (2157) Phase II, Gen. Const. Pacific Coast Builders	12-5-62	11-15-63	225,200	103,592	1956 School
City College (2200) Addition to Smith Hall Arntz Construction Co.	2-20-63	91%	374,685	52,456	1956 School
City College (2211) Ornamental Hort. Facility Wm. McIntosh & Son	2-27-63	83%	357,517	225,236	1956 School
Total Awarded and Expended During Fiscal Year			0	$381,716	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
A-2 MISCELLANEOUS ALTERATIONS					
Various Schools (2184) Heat Detectors Elec. Const. & Sales Co.	10-31-62	8-22-63	$12,889	$ 129	1956 School
Various Schools (2199) Auto. Fire Sprinklers Approved Auto.Sprinkler Co.	1-30-63	7-23-63	49,789	13,443	1956 School
Louise M. Lombard School (2143) Reglazing & Door Replacement Wm. McIntosh & Son	2-6-63	10-18-63	15,254	8,390	1956 School
Geo. Washington HS (2201) Three Portable Classroom Bldgs. Stenmark Const. Co.	2-20-63	9-4-63	24,442	12,221	District
Francisco JHS (2209) New Doors & Misc. Work Stenmark Const. Co.	2-27-63	9-23-63	14,574	10,202	1956 School
Various Schools (2223) Heat Detectors Golden Gate Elec. Co.	2-27-63	8-14-63	19,240	5,772	1956 School
Various Schools (2213) Auto. Fire Sprinklers Ser. E-5 Bay Area Mech. Contractors	2-27-63	9-15-63	69,908	64,903	1956 School
Various Schools (2239) New Yard Benches Wm. McIntosh & Son	3-20-63	7-29-63	5,334	1,334	District

Everett & J. Lick Jr. HS (2029) Modernization of Science Rooms Wilner Const. Co.	3-20-63	10-22-63	22,960	19,516	District
Spring Valley School (2245) Fence Repair & Painting Ben Bearse	4-3-63	7-12-63	3,000	1,050	District
Various Schools (2241) Alterations for Fire Safety Wilner Const. Co.	4-3-63	8-22-63	6,336	6,273	1956 School
Commodore Stockton School (2242) Ext. Stair Guards H. E. Rahlmann Co.	4-3-63	8-26-63	2,881	2,881	District
Commodore Sloat School (2232R) New Kitchen Unit in Teachers' Room Ben Bearse	4-3-63	7-5-63	2,600	26	District
Presidio Jr. High School (2226) Portable Classrooms H. E. Rahlmann Co.	4-3-63	7-19-63	11,936	596	District
Galileo High School (2215) Auto. Fire Sprinklers Geo. M. Robinson Co.	4-3-63	10-3-63	57,789	54,900	1956 School
Redding School (2234) New Toilet Facility H. E. Rahlmann Co.	4-3-63	7-15-63	1,947	1,947	District
Mission High School (2216) Auto. Fire Sprinklers California Auto Sprinkler Co.	4-17-63	9-13-63	53,380	50,710	1956 School

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
A-2 MISC. ALTERATIONS (cont.)					
Francisco Jr. High School (2216) Modernization of Science Rms. Stenmark Const. Co.	5-8-63	10-17-63	$ 30,975	$ 25,399	District
Roosevelt Jr. High School (2253) Alterations to Locker Room Ercoa, Inc.	5-8-63	9-25-63	15,083	15,083	1956 School
Geo. Washington HS (2225) Miscellaneous Alterations Ercoa, Inc.	5-8-63	9-23-63	13,778	13,778	District
Various High Schools (2256) Acoustic Ceilings and Lighting Fixtures Arthur W. Baum	5-8-63	8-23-63	25,200	15,120	1956 School
Bessie Carmichael School (2230) Portable Classrooms H. E. Rahlmann Co.	5-8-63	8-2-63	5,626	5,345	District
Geo. Washington HS (2252) Auto. Fire Sprinklers Barnard Engineering Co.	5-8-63	9-22-63	39,802	39,802	1956 School
Herbert Hoover JHS (2258) Portable Classrooms H. E. Rahlmann Co.	5-8-63	12-2-63	21,683	16,262	District
Various Schools (2251) Miscellaneous Repair Work Stenmark Const. Co.	5-8-63	10-23-63	38,560	25,064	District
Roosevelt Jr. High School (2247) Auto. Fire Sprinklers Auto. Sprinkler Engr. Co.	5-22-63	10-31-63	28,493	28,493	1956 School

Presidio Jr. High School (2265) Alt. for Fire Safety Ben Bearse	5-22-63	12-14-63	$ 7,167	$ 7,167	1956 School
Visitacion Valley School (2227) Portable Classrooms Adam Arras & Son	5-22-63	11-15-63	109,979	109,979	District
Everett Jr. High School (2269) Rehabilitation of Food Lab. Ben Bearse	5-22-63	11-8-63	19,131	18,174	1956 School
Roosevelt Jr. High School (2272) Alt. for Fire Safety H. E. Rahlmann Co.	6-5-63	12-10-63	7,098	7,098	1956 School
Golden Gate School (2266) Kitchen Area Additions Wm. McIntosh & Son	6-5-63	12-16-63	36,712	35,978	1956 School
Lowell High School (2257) Remodeling Classrooms To Chemistry Laboratory De Narde Const. Co.	6-5-63	12-12-63	27,400	27,400	1956 School
City College (2264) Track Reconstruction and Misc. Work Bernard Gayman	6-5-63	6-17-64	37,327	37,327	1956 School
Everett Jr. High School (2261) Auto. Fire Sprinklers Fire Protection Engrs., Inc.	6-14-63	10-21-63	35,759	35,759	1956 School
Various Schools (2276) Heat Detectors Elec. Const. & Sales Co.	6-21-63	12-17-63	10,536	10,536	1956 School

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
A-2 MISC. ALTERATIONS (cont.)					
Mission High School (2281) New Lighting Fixtures Coopman Electric Co.	6-28-64	10-16-63	$19,444	$19,444	1956 School
Various Schools (2274R) Intercom & Clock Systems Emil J. Weber Elec. Co.	6-28-63	1-21-64	14,500	14,500	1956 School
Marina Jr. High School (2271) Installation of Metal Canopy Robert L. Sage	7-5-63	12-20-63	11,603	11,603	District
Marina Jr. High School (2275) Installation of Refuse Can Enclosure Ben Bearse	7-5-63	1-20-64	2,658	2,658	District
Roosevelt Jr. High School (2287) Repairs and Painting Wm. McIntosh & Son	7-5-63	1-14-64	13,12C	13,120	District
Commodore Stockton School (2292) Guards at Connecting Stair Olympic Constr. Co., Inc.	7-10-63	8-14-63	606	606	District
Board of Education (2282) Cafeteria Alteration Wm. McIntosh & Son	7-19-63	10-24-63	21,089	21,089	District
Board of Education Cafe (2299) Ventilation Work Colan Heating & Sheet Metal	7-31-63	10-18-63	5,211	5,211	District

Bret Harte School (2301) Portable Classroom H. E. Rahlmann Co.	8-14-63	1-2-64	$19,762	$19,762	District
Various Schools (2273) Auto. Fire Sprinklers A & B La Dew Engr.	8-23-63	11-29-63	8,485	8,485	1956 School
Various Schools (2307) Lighting Fixtures Ets-Hokin & Galvin, Inc.	8-23-63	12-21-63	18,112	18,112	1956 School
Woodrow Wilson HS (2298) Drainage & Sprinkler Rev. To Planting Areas Mitchell Plumbing Co.	9-6-63	12-11-63	6,900	6,900	1956 School
Michael-Angelo Playground (2303) Demolition of Buildings and Installation of New Fence Robert L. Sage	9-6-63	12-5-63	6,924	6,924	District
Lowell High School (2313) Installation of Main Entrance Handrails Michel & Pfeffer Iron Works	9-6-63	1-7-64	885	885	District
Sutro School Annex (2312) Portable Classroom Bldgs. H. E. Rahlmann Co.	9-6-63	3-16-64	35,241	35,241	District
Various Locations (2306) Chain Link Fencing San Jose Steel Co.	9-6-63	12-6-63	2,715	2,715	District
Woodrow Wilson HS (2320) Door Bell Call System & Electrical Hook-up for Motorized Backstops Reco Electric, Inc.	10-2-63	4-2-64	1,264	1,264	1956 School

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
A-2 MISC. ALTERATIONS (cont.)					
Abraham Lincoln HS (2315) Waterproofing Ext. Walls J. Wm. Sorensen, Inc.	10-2-63	2-21-64	$ 9,325	$ 9,325	District
Balboa High School (2280R) Lighting Fixtures in Gym and Typing Rooms Ets-Hokin & Galvin, Inc.	10-18-63	1-2-64	10,142	10,142	1956 School
Lowell High School (2336) Door Bell Systems and Clock Buzzers Coopman Electric Co.	11-27-63	1-2-64	850	850	1956 School
Hawthorne School (2337) Ext. Cement Plaster Repairs Hermann Bosch	12-6-63	3-17-64	21,242	21,242	District
Lowell High School (2337R) Installation of Pressure Reducing Valves Don Kane Company	12-18-63	3-10-64	1,115	1,115	1956 School
Various Schools (2340) Alt. to Counseling Rooms Leon Carlen	1-3-64	3-20-64	4,742	4,742	District
General Admin. Office Bldg. (2346) Alt. to Third Floor Martinelli Const. Co.	1-24-64	93%	95,569	88,879	District
Francisco Jr. High School (2341) Portables De Narde Const. Co.	1-24-64	6-5-64	17,439	17,439	District

Giannini & Hoover JHS (2344) Heat Detectors Electrical Const.& Sales Co.	2-5-64	38%	$13,358	$ 5,076	1956 School
City College (2339) X-Ray Tech. Lab. Nibbi Bros.	2-5-64	80%	27,676	22,141	District
Francisco Jr. High School (2358) Rehabilitation of Homemaking Rooms Wm. McIntosh & Son	3-4-64	33%	45,888	15,143	1956 School
Board of Education (2342R) Int. Flooring and Repair Martinelli Const. Co.	3-20-64	60%	3,881	2,329	District
Various Schools (2373) Heat Detectors Electrical Const.& Sales Co.	3-25-64	40%	11,468	4,587	1956 School
Washington Irving School (2350) Rehabilitation H. E. Rahlmann Co.	3-27-64	19%	92,449	17,565	1956 School
Bryant School (2376) Ext. Waterproofing Robert Thompson, Inc.	4-10-64	28%	14,200	3,976	District
James Lick Jr. High School (2382) Alt. to Cafeteria Line Wm. McIntosh & Son	4-22-64	0	3,106	0	District
J. O'Connell V.&T. Institute (2329) Engine Test Cell De Narde Const. Co.	4-22-64	2%	18,213	364	District
McCoppin & Madison Schools (2393) Gutter & Leader Replacement Valley Sheet Metal Co.	4-29-64	32%	6,165	1,973	District

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
A-2 MISC. ALTERATIONS (cont.)					
Garfield School (2367) Rehabilitation Peter Sartorio, Inc.	5-8-64	15%	$110,632	$ 16,595	1956 School
Pelton Jr. High School (2371) Kitchen Refrigeration Unit Linford Air & Refrig. Co.	5-8-64	5%	4,625	231	District
R. L. Stevenson School (2396) Classroom Alterations H. E. Rahlmann Co.	5-13-64	15%	4,640	696	District
Jean Parker School (2365) Rehabilitation Martinelli Constr. Co.	5-6-64	0	76,400	0	1956 School
George Washington (2397) Rehabilitation Martinelli Constr. Co.	5-6-64	15%	28,850	4,327	1956 School
Andrew Jackson, Anza (2398) Louise M. Lombard, Douglas, Alvarado, and Edison Schools Heat Detectors, Ser. HD-7 Electrical Constr. & Sales Co.	5-13-64	0	14,889	0	1956 School
Presidio Jr. High School (2390) Alterations Wm. McIntosh & Son	5-6-64	15%	20,961	3,144	1956 School
Hawthorne School (2410) Installation of Outdoor Loudspeaker System Dayco Electronic, Inc.	5-27-64	0	485	0	District

Balboa, Galileo and Mission High Schools (2404) Acoustical Arthur W. Baum	5-27-64	0	$ 27,724	0	1956 School
Polytechnic High School (2405) Alterations to Sewing Rms. Arthur W. Baum	5-27-64	15%	9,711	$ 1,457	1956 School
Various Schools (2413) New Yard Benches Gerell Enterprises, Inc.	6-24-64	0	1,669	0	District
Fairmount School (2411) New Water Service Goldman & Son	6-24-64	0	1,030	0	District
Geo. Washington HS (2416) Refinish Gym Floors Roma Hardwood Floor Co.	6-24-64	0	2,330	0	District
Total Awarded and Expended During Fiscal Year			$855,349	$1,228,918	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
A-3 ACOUSTICAL WORK					
Various Schools (2279) Acoustical Ceilings The Sono-Ceil Company	6-21-63	10-2-63	$ 3,689	$ 3,689	1956 School
City College (2347) Acoustical Tile Ceilings Louis A. Ravano	1-29-64	4-16-64	886	886	District
Alvarado & Muir Schools (2389) Acoustical Ceilings Diablo Const. Co.	4-22-64	0	4,175	0	District
Total Awarded and Expended During Fiscal Year			$ 5,061	$ 4,575	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
A-4 ROOFING JOBS					
Jedediah Smith Annex (2246) Reroofing New Art Roofing Company	4-17-63	7-31-63	$ 3,791	$ 758	District
Abraham Lincoln HS (2290) Reroofing Sunset Roofing & Siding	7-3-63	11-15-63	2,620	2,620	District
Roosevelt Jr. High School (2284) Reroofing Regal Roofing Company	7-5-63	1-2-64	13,637	13,637	District
Presidio Jr. High School (2293) Roof & Tile Repairs Bender Roofing, Inc.	7-31-63	1-2-64	7,893	7,893	District
Excelsior Nursery and School Age Center (2286) Reroofing and Misc. Work Robert F. Smith Company	7-31-63	10-25-63	3,833	3,833	District
Columbus School (2297) Reroofing and Misc. Work Robert F. Smith Company	8-9-63	12-30-63	7,192	7,192	District
Laguna-Golden Gate and Edison Nursery (2302) Roof Coating Robert F. Smith Company	8-14-63	11-12-63	1,275	1,275	District
Alamo and LeConte Schools (2300) Resurfacing Roof Decks Robert F. Smith Company	8-14-63	11-15-63	4,582	4,582	District

Le Conte School (2304) Installation of Roof Coating and Sheet Metal Work Fidelity Roof Company	8-14-63	1-16-64	$ 810	$ 810	District
Mission High School (2318) New Deck Coating Jack Ostrander	9-25-63	4-2-64	1,800	1,800	District
Guadalupe School (2324) Roof and Gutter Repair and Misc. Work Lou H. Frost Roofing Co.	10-18-63	6-15-64	6,900	6,900	District
Various Schools (2326) Reroofing Sunset Roofing & Siding	10-18-63	6-5-64	18,220	18,220	District
Commodore Sloat School (2333) Roofing and Waterproofing Lou H. Frost Roofing Co.	11-8-63	6-15-64	1,794	1,794	District
Pacific Heights Adult School (2351) Resurfacing Roof Decks Malott & Peterson-Grundy	2-5-64	4-1-64	5,887	5,887	District
Visitacion Valley Annex (2377) New Porch Roof H. E. Rahlmann Co.	4-22-64	85%	3,387	2,879	District
Total Awarded and Expended During Fiscal Year			$ 79,830	$80,080	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
A-5 RESILIENT FLOORING					
Sheridan School (2305) Resilient Flooring and Related Work H. E. Rahlmann Co.	8-23-63	1-16-64	$ 1,813	$1,813	District
Total Awarded and Expended During Fiscal Year			$ 1,813	$1,813	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
A-6 INTERIOR & EXTERIOR PAINTING					
Douglas School (2228) Painting A. Quandt & Sons, Inc.	3-6-63	7-23-63	$ 7,267	$ 2,543	District
Le Conte School (2237) Painting Martin Fried, Inc.	3-20-63	8-26-63	5,787	4,049	District
James Denman Jr. High School (2233) Painting J. Wm. Sorensen, Inc.	3-20-63	8-26-63	14,956	8,974	District
Parkside School (2244) Painting W. G. Thompson	4-3-63	10-17-63	11,438	6,291	District
Geo. Washington High School (2229) Painting W. G. Thompson	4-3-63	8-26-63	24,680	14,808	District
Noriega Home School (2243) Painting Martin Fried, Inc.	4-3-63	10-15-63	3,170	2,853	District
Balboa High School (2249) Painting D. E. Burgess Co.	5-8-63	8-26-63	25,666	16,683	District
Hancock School (2248) Painting Martin Fried, Inc.	5-8-63	8-26-63	26,429	16,386	District
Raphael Weill School (2263) Painting Robert Thompson, Inc.	5-8-63	8-28-63	23,340	17,505	District

Aptos & Roosevelt JHSs (2268) Painting Gyms J. Wm. Sorensen, Inc.	5-22-63	9-6-63	$15,333	$15,333	District
Sheridan School (2267R) Painting and ext. waterproofing Robert Thompson, Inc.	7-5-63	10-18-63	13,760	13,760	District
Various Schools (2277) Painting Game Lines Fiberaised Bar & Line Co.	7-5-63	9-11-63	4,136	4,136	District
John O'Connell Vocational HS and Tech. Institute (2283) Painting and Waterproofing Robert Thompson, Inc.	7-5-63	4-27-64	63,200	63,200	District
Irving M. Scott School (2285) Painting Robert Thompson, Inc.	7-10-63	10-16-63	5,816	5,816	District
Mission High School (2319) Painting and Plastic Coating W. G. Thompson	10-2-63	2-17-64	2,689	2,689	District
Laguna-Golden Gate Nursery and School-Age Center (2338) Painting Antone Petersen & Sons	12-18-63	3-11-64	2,970	2,970	Child Care
Gianni Jr. High School (2361) Painting D. Zelinsky & Sons	3-4-64	20%	13,969	2,794	District
Geary School (2363) Painting Robert Thompson, Inc.	3-4-64	25%	6,200	1,550	District

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
A-6 PAINTING (cont.)					
Francis Scott Key Annex (2364) Painting A. Quandt & Sons	3-4-64	10%	$11,980	$ 1,198	District
Pacific Heights Adult School (2370) Painting J. Wm. Sorensen, Inc.	3-20-64	10%	7,151	715	District
Hawthorne School (2368) Painting R. P. Paoli & Co.	3-27-64	25%	12,758	3,189	District
McCoppin and Laguna Honda Schools (2384) Painting A. Quandt & Sons	4-22-64	32%	14,720	4,710	District
Various Schools (2387) Painting A. Quandt & Sons	4-22-64	45%	10,700	4,815	District
Sheridan School (2388) Painting J. Wm. Sorensen	4-29-64	0	13,989	13,989	District
Roosevelt Jr. High School (2386) Painting Waterproofing and Related Work Arthur W. Baum	5-8-64	8%	35,925	2,874	District
Monroe School (2391) Painting Russell Hinton Co.	5-6-64	30%	7,743	2,323	District

Various Schools (2412) Painting Game Lines Fiberaised Bar & Line Co.	6-24-64	0	$ 7,560	0	District
Total Awarded and Expended During Fiscal Year			$235,266	$236,153	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
A-7 YARD PAVING					
Edison Child Care Center (2259) Yard Paving & Fence Work Kunz Paving Co.	5-8-63	8-8-63	$ 3,680	$ 368	Child Care
	- - - -	- - - - - -	- - - - - -	- - - - - -	
Various Schools (2278) Resurfacing Yard Paving and Painting Game Lines Malott & Peterson-Grundy	7-5-63	9-20-63	27,887	27,887	District
Sutro School Annex (2294) Yard Paving Malott & Peterson-Grundy	7-17-63	9-6-63	5,447	5,447	District
Pacific Heights School (2311) New Parking Facility O. C. Jones & Sons	9-6-63	12-13-63	4,165	4,165	District
Various Schools (2417) Yard Paving and Game Lines Highway Safety Supply	6-26-64	0	13,080	0	District
Total Awarded and Expended During Fiscal Year			$50,579	$37,867	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
B-1 FIRE DEPARTMENT NEW CONSTRUCTION					
Firehouse for Engine #23 (2052) General Construction Ira H. Larsen Co.	4-18-62	12-9-63	$236,018	$ 44,843	General
Total Awarded and Expended During Fiscal Year			0	$ 44,843	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
C-1 S. F. GENERAL HOSPITAL					
Service Building #6 (2192) Kitchen Alterations B. Stuart MacIntyre, Jr.	1-16-63	7-19-63	$38,929	$ 778	1954 Hospital General
Ward Building #20 (2109) Dental Clinic Stenmark Const. Co.	4-24-63	10-27-63	44,944	44,944	1954 Hospital
New Turbine Generator Unit And Related Work (2126) Brayer Electric Co.	5-25-62	7-15-63	82,888	63,824	1954 Hospital Def. Maint.
Surgery Bldgs. 1, 1A, 1B And 1C (2291) General Const. for New Shear Walls and Related Work Arntz Construction Co.	8-9-63	98%	128,486	126,008	General
Clinical Laboratories Bldg. Reroofing and Parapet (2295) Sunset Roofing & Siding Co.	9-25-63	1-2-64	11,724	11,724	General
New Turbine Generator Unit and Miscellaneous Equipment (2334) Brayer Electrical Co.	11-8-63	3-2-64	1,285	1,285	General
S. F. General Hospital (2194) Specs. for installation Auto Sprinkler Fire Protection System Fire Protection Engr., Inc.	5-13-64	6%	63,388	3,803	General

S. F. General Hospital (2375) General Construction of Pathology Bldg. and Central Animal Care and Research Facility S. J. Amoroso Const. Co.	5-25-64	0	$1,198,650	0	1954 Hospital
Various Buildings (2195) Fire Alarm System Abbett Electric Corp.	6-17-64	0	115,298	0	General
Total Awarded and Expended During Fiscal Year			$1,518,831	$252,366	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
C-2 LAGUNA HONDA HOSPITAL					
Deck Covering for Clarendon Hall (2289) Fidelity Roofing Co.	6-14-63	8-23-63	$ 2,627	$ 2,627	Maint. & Repair
Ward Building "C" and Related Work (2270R) Beacon Construction Co.	10-2-63	90%	129,562	116,606	General
Total Awarded and Expended During Fiscal Year			$129,562	$119,233	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
C-3 HEALTH CENTER BUILDING					
New Entrance Doors and Related Work (2219) De Narde Const. Co.	2-7-63	12-18-63	$12,890	$12,890	General
Total Awarded and Expended During Fiscal Year			0	$12,890	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
D - DE YOUNG MUSEUM					
Relocation of Women's Toilet (2352) Antone Petersen & Sons	1-15-64	99%	$ 16,943,	$15,249	General Fund
M. H. De Young Museum (2406) Temporary Electric Service Lynch Electric Co., Inc.	5-13-64	0	2,175	0	General
M. H. De Young Museum (2400) Gen. Constr., Plumbing, Mech. and Elec. West Wing Carl W. Olson	6-3-64	0	1,723,100	0	1960 Museum
Total Awarded and Expended During Fiscal Year			$1,742,218	$15,249	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
E - YOUTH GUIDANCE CENTER					
Addition to Maximum Security Cottage (2332) General Construction De Narde Construction Co.	3-6-64	60%	$16,260	$ 9,756	General
Total Awarded and Expended During Fiscal Year			$16,260	$ 9,756	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
F - CIVIC CENTER					
Auditorium Rehabilitation (1955R) Perini Corp.	5-2-62	97%	$6,623,000	$2,440,510	1960 Aud.
Civic Auditorium (1955R-ss) Sound System A. B. Loudermilk Co.	9-5-62	55%	76,366	35,128	1960 Aud.
City Hall Alterations for Offices for City Attorney (2238)	4-17-63	10-31-63	19,123	11,665	General
War Memorial Opera House Additions to Women's Toilet (2288) Antone Petersen & Sons	7-17-63	12-16-63	15,455	15,455	General
Veterans' Bldg., Rm. 123 (2296) New Suspended Ceiling And Platform Wilner Construction Co.	7-31-63	1-10-64	1,189	1,189	General
South East Quadrant (2309) Alterations to Existing Hoistways for New Elevators DeNarde Construction Co.	9-6-63	74%	37,721	27,914	General
South East Quadrant (2310) New Passenger Elevators Otis Elevator Co.	9-6-63	78%	146,835	114,531	General
Centrex Telephone Exchange (2316)					
Basement, City Hall Wilner Construction Co.	10-25-63	65%	29,522	19,189	General

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
F - CIVIC CENTER (cont.)					
City Hall - Alterations to Offices At North Wing, Second Floor (2323) Leon Carlen	11-22-63	4-16-64	$ 34,407	$ 34,407	General
Opera House (2359) Stage Flooring Wm. McIntosh & Son	3-6-64	30%	13,786	4,136	General
S. F. Main Library (2357) Alterations to Science And Tech. Dept. Nibbi Bros.	3-11-64	0	32,757	0	General
Opera House (2366) Elevator Modernization Pacific Elevator Co.	3-20-64	20%	39,475	7,895	General
City Hall (2345) Extension to Electronic Data Processing Rooms Adam Arras & Son	4-10-64	40%	59,916	23,966	General
Total Awarded and Expended During Fiscal Year			$411,063	$2,735,985	

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
H- MISCELLANEOUS					
Steinhart Aquarium (1846) Additions & Alterations Ira H. Larsen Co.	7-27-60	1-10-64	$1,227,711	$ 12,277	1958 Rec. Park
Kezar Pavilion (2205) Additions & Alterations to Dressing Rooms Stenmark Construction Co.	1-23-63	10-10-63	83,954	17,630	1955 P & RC
Potrero Hill and Sunset Recreation Centers (2221) Reroofing Various Units Western Roofing Service	3-6-63	7-12-63	8,142	1,081	General
Steinhart Aquarium (2235) Amphibian Tanks Wm. McIntosh & Son	3-20-63	11-29-63	4,370	4,370	General
Steinhart Aquarium (2336) Reptile Tanks The Fink & Schindler Co.	3-20-63	12-13-63	26,450	26,450	General
Union Square (2212) Permanent Platform De Narde Construction Co.	4-3-63	9-12-63	5,484	1,097	General
Southeast Sewage Plant (2262) Roof Repairs to Digester Tanks Regal Roofing Co.	5-15-63	7-24-63	2,161	21	General
Academy of Sciences North American Hall (2231) New Roof Structure and Build-up Roof Edco Construction Co.	5-15-63	3-19-64	21,500	21,500	General

Candlestick Park (2255R) Painting Stadium Chairs Robert Thompson, Inc.	8-21-63	3-5-64	$ 7,759	$ 7,759	General
Log Cabin Ranch School for Boys, Project #5 (2260) Administration Building Filo Corp.	9-6-63	4-8-64	94,170	94,170	General
Camp Mather (2317) Painting and Misc. Work Don L. Davis	9-6-63	6-3-64	6,740	6,740	General
Dept. of Elec. Admin. Comm & Traffic Facilities (2314) Installation of Storm Water Drainage System Mitchell Plumbing Co.	10-11-63	1-2-64	17,925	17,925	General Road
Second, Third and Fourth Floors, 150 Otis Street (2322) Window Replacement and Related Work Antone Petersen & Sons	10-16-63	99%	9,958	8,962	General
Milton Meyer Comm. Bldgs. (2308) Installation of Wire Mesh Screens Over Windows Robert L. Sage	10-18-63	1-2-64	2,034	2,034	General
S. F. County Jail #2 (2331) Reroofing Lou H. Frost Roofing Co.	10-30-63	3-2-64	4,545	4,545	General
Hassler Health Home Ward 5B (2335) Linoleum Repairs West Coast Linoleum	11-6-63	1-13-64	3,290	3,290	General

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
H - MISCELLANEOUS (cont.)					
Dept. of Elec. Admin. Comm. & Traffic Facilities (2325) General Alterations H. E. Rahlmann Co.	11-15-63	5-22-64	$ 54,532	$ 54,532	General
Judah & Taraval Conv. Stations Roofing and Skylight (2348) Repairs New Art Roofing Co.	1-24-64	4-23-64	1,336	1,336	General
S. F. Zoo (2349) Repairs to Conv. Station H. E. Rahlmann Co.	2-5-64	5-18-64	5,234	5,234	General
Various Recreation Centers (2353) Refinishing and Resealing Gym. Floors Ivan P. Bodine	2-5-64	86%	8,790	7,559	General
150 Otis Street (2330) Elevator Modernization Pacific Elev. & Equip. Co.	2-5-64	65%	59,245	38,509	General
150 Otis Street (2380) Renovations to 4th & 5th Floors Antone Petersen & Sons	2-28-64	99%	23,898	21,509	General
Ocean View Recreation Center (2356) Painting & Misc. Repairs De Narde Construction Co.	3-6-64	95%	6,400	6,080	General
Sunset Recreation Center (2355) Painting & Misc. Repairs De Narde Construction Co.	3-6-64	95%	6,298	5,983	General

Hassler Health Home (2374) Required Stairways Forrest Anderson Const. Co.	3-27-64	6-1-64	$ 3,499	$ 3,499	General
Eureka-Noe Health Center (2360) General Construction Stenmark Construction Co.	4-10-64	4.5%	410,100	18,455	General
Kezar Pavilion (2343R) Roof Repairs and Office Addition De Narde Construction Co.	4-24-64	0	51,600	0	Roof Repairs Phase II Improvement
Hamilton Pool and Recreation Center (2354R) Miscellaneous Repairs Robert L. Sage	4-24-64	35%	9,999	3,300	General
Kezar Pavilion (2372) Toilet Repairs Merz Bros.	4-24-64	0	13,425	0	General
Public Welfare Department (2381) Renovations, 2d & 3d Flrs. Antone Petersen & Sons	5-6-64	30%	50,748	15,224	General
Hassler Health Home (2401) General Construction Fire Protection System and Related Work Wm. McIntosh & Son	5-20-64	75%	76,639	57,479	General
Hassler Health Home (2407) Linoleum Repairs West Coast Linoleum and Carpet Co.	5-13-64	0	3,159	0	General

CURRENT CONTRACT DATA 1963-1964

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1963-1964	Fund
H - MISCELLANEOUS (cont.)					
Coit Tower at Tel. Hill (2378) Miscellaneous Repairs Robert L. Sage	3-18-64	0	$ 9,101	0	General
Richmond-Sunset Sewage Treatment Plant (2369R) Roof Repairs Sunset Roofing & Siding Co.	6-17-64	0	5,412	0	General
Palace of Fine Arts (2190) General Construction M & K Corp.	6-19-64	0	6,649,800	0	1959 Bond Private State Fund
Hamilton Recreation Center (2392) Repairs and Refinishing of Gym Floors Roma Hardwood Floor Co.	6-26-64	0	1,550	0	General
Total Awarded and Expended During Fiscal Year			$7,597,186	$468,550	

D

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DEPARTMENT OF PUBLIC WORKS

SEAL OF THE CITY AND COUNTY OF SAN FRANCISCO

ANNUAL REPORT 1964 - 1965

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ANNUAL REPORT

of the
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1965

JOHN F. SHELLEY______________________Mayor
THOMAS J. MELLON______Chief Administrative Officer
S. MYRON TATARIAN_______Director of Public Works

Material compiled by John A. Jelincich, Bureau of Engineering

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TABLE OF CONTENTS

DIRECTOR'S LETTER OF TRANSMITTAL 5

BUREAU OF ENGINEERING 9

BUREAU OF ARCHITECTURE 74

BUREAU OF BUILDING INSPECTION 87

MAINTENANCE AND OPERATION

Bureau of Sewer Repair and Sewage Treatment 116

Bureau of Street Repair 143

Bureau of Building Repair 157

Bureau of Street Cleaning and Planting 165

ADMINISTRATIVE BUREAUS 178

Bureau of Accounts 181

Central Permit Bureau 186

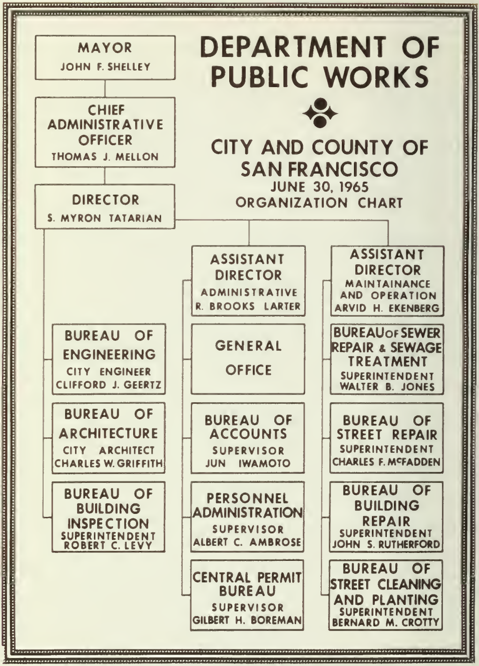
Bureau of Personnel Administration 193

APPENDICES

I—Current Contract Data, Bureau of Engineering

II—Current Contract Data, Bureau of Architecture

III—Bureau of Accounts



DEPARTMENT OF PUBLIC WORKS

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1965
ORGANIZATION CHART

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS

September 27, 1965

OFFICE OF THE
DIRECTOR OF PUBLIC WORKS

260 CITY HALL
SAN FRANCISCO
CALIFORNIA 94102

Annual Report
1964-1965

Mr. Thomas J. Mellon
Chief Administrative Officer
City and County of San Francisco

Dear Mr. Mellon:

In compliance with the provisions of Section 20 of the Charter of the City and County of San Francisco, I submit the annual report of the Department of Public Works for the fiscal year ending June 30, 1965.

The Department budget totaled $27,271,814 from the following budgeted sources: General Fund, Special Gas Tax Street Improvement Fund, and Road Fund. The amount actually expended was $23,562,602.

During the year, the Department awarded 371 contracts for a total bid amount of $22,761,198. These figures represent an increase of 22% in the number of contracts and an increase of 22% in the value of the contracts awarded.

Major projects completed or under construction include the Pathology Building at the San Francisco General Hospital, the Brundage Wing of the M.H. de Young Museum, Civic Auditorium Rehabilitation, Palace of Fine Arts Reconstruction, the Westside Health Center, Evans Avenue Reconstruction, Great Highway Extension, North Point Collecting Sewers, Cayuga Auxiliary Sewer, the Marina Small Craft Harbor, and Additions and Betterments to Sewage Treatment Plants.

Private building activity continued at a high volume during the year, although reductions of 9% each were experienced in the number of permits issued and in the total estimated cost. There were 13,507 building permits issued for construction work estimated to cost $172,409,898.

Unusual activities during the past year included the devotion of a considerable amount of our time and effort toward assuring that the designs of the proposed Rapid Transit System under Market Street are in harmony with the proposed plans for the revitalization and beautification of this street. Also, during the latter part of the year, we initiated a 7-month long Downtown Parking and Traffic Survey which was sufficiently extensive to require the employment of almost 100 additional temporary employees. It is to be noted, too, that in this past year, the problems of water pollution and garbage disposal have commanded significantly more of our attention.

Tha Assistant Directors, the Bureau Heads, their staffs and the personnel of the Department have my sincere thanks for their fine efforts and cooperation. Also, I wish to express my appreciation to you for your guidance and support in solving the many problems of the Department.

Very truly yours,

Sm Tatarian

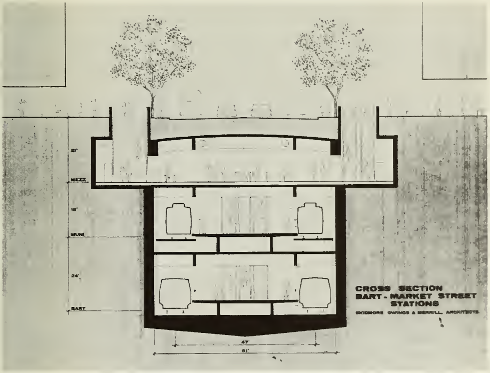
S. M. Tatarian
Director of Public Works

MARKET STREET
1965

MARKET STREET DESIGN TASK FORCE

With the advent of Bay Area Rapid Transit (BART), the City, early in 1964, began a concerted design effort, not only in relation to the Market Street Rapid Transit stations, but for the much needed revitalization and beautification of the entire length of Market Street from the Embarcadero to Castro Street, a distance of 3.25 miles.

Spurred by vitally interested private groups such as the San Francisco Planning and Urban Renewal Association (SPUR), the Market Street Development Project, the Downtown Association, the Retail Dry Goods Association and the Chamber of Commerce, a special design group was organized in July of 1964, and on August 18, the offices of the Market Street Design Task Force were opened at 1254 Market Street, Rooms 303 and 304. The Task Force, with Mr.



Gerald McLindon, of the Market Street Development Project, as Team Captain, reports directly to the Market Street Executive Committee with Mr. S. M. Tatarian as Chairman.

A significant accomplishment of the Task Force and its Utilities Committee was the clarification and precise definition given to the utility and mezzanine-location portions of the Rapid Transit design. From a depth of approximately 27 feet, the floor of the typical station mezzanine (see cross section), can now be located at a depth of 21 feet, and perhaps even less as the plans are further detailed.

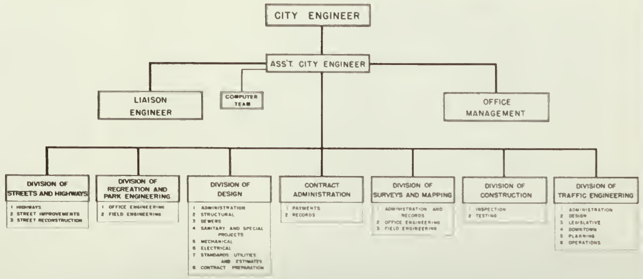
A further accomplishment has been a more complete and objective description of the function of Market Street in the Downtown circulation system. Such elements as through and circulating traffic flows, pedestrian flows, parking characteristics by vehicle type and trip purpose and patronage flows to and from the Rapid Transit stations are now playing an important role in the design of the street surface.

ORGANIZATION CHART

BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

JUNE 30, 1965



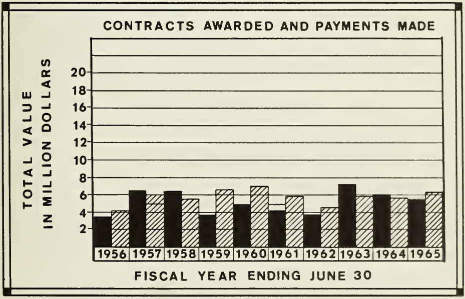
BUREAU OF ENGINEERING

Clifford J. Geertz, City Engineer

GENERAL DATA

The Bureau of Engineering maintained its average annual level of production in processing and awarding 117 contracts with an aggregate value of $5,401,938.83. Contract payments amounted to $6,239,149.16.

While the number of contracts awarded remained the same as the 1963-1964 fiscal year, the value of awards was approximately 10% less. The amount expended during the 1963-1964 fiscal year increased by 14%.



CONTRACTS AWARDED AND PAYMENTS MADE

Table 1 shows the breakdown of contracts awarded and payments made according to the type of construction.

TABLE 1

Table	Type of Construction	Contracts Awarded No.	Contracts Awarded Aggregate Value	Amount Expended Fiscal Yea 1964 - 196
A	Major Thoroughfares	3	$557,468.24	$849,534.
B-1	Streets - Private Contracts	11	167,200.00	110,470.
B-2	Streets - Assessment Proceedings	13	434,104.45	185,998.
B-3	Streets - Public Contract City Pay	9	323,459.81	280,084.
C	Traffic Signals and Channelization	10	365,221.06	258,761.
D-1	Sewers - Vitrified Clay and Concrete	12	607,542.94	241,468.
D-2	Sewers - Concrete Monolithic	3	1,061,834.00	1,062,614.
E	Recreation-Park	21	686,686.25	1,758,510.
F	Miscellaneous	27	1,190,270.08	1,483,559.
G	Informal Contracts	8	8,152.00	8,147.
	TOTALS	117	$5,401,938.83	$6,239,149.

Engineering Plans and Specifications for Bureau of Architecture 44 Contracts	$1,258,208.00
GRAND TOTAL	$6,660,146.83

PROJECTS OF GENERAL INTEREST

BOSWORTH STREET WIDENING

A congested, two-lane roadway situated in the heart of the Glen Park district will be widened into a four-lane, divided thoroughfare under a $219,513 contract awarded the Lowrie Paving Company on February 10, 1965. A principal neighborhood artery since the settling of Glen Park in the late 19th Century, Bosworth Street has also been required to serve as one of the only convenient crosstown routes through the central portion of the City. This additional function occurred subsequent to the improvement in 1939-41, by WPA contract, of O'Shaughnessy Boulevard, which is a physical extension of Bosworth Street through Glen Canyon.

The contract represents the first step of a $10 Million program to provide the entire crosstown route with acceptable traffic handling capacities. The traffic lanes will be 12' wide. Parking lanes of 8' width and left turn havens of 10' width will be constructed. The initial portion of a modern street lighting system will be installed under the first contract between Lyell Street and Lippard Avenue.

The improvement scheme is an ambitious one for the crosstown route which is about 1.6 miles in length and which is comprised of Bosworth Street, O'Shaughnessy Boulevard and Woodside Avenue. The construction schedule is planned for a series of four contracts spanning a period of about five years. Because of difficult terrain along certain stretches of the route, it is anticipated that roadway construction work will include pedestrian overpasses, a 400' side-hill viaduct, a 600' vehicular bridge and a 400' tunnel under Portola Drive as a grade separation structure.

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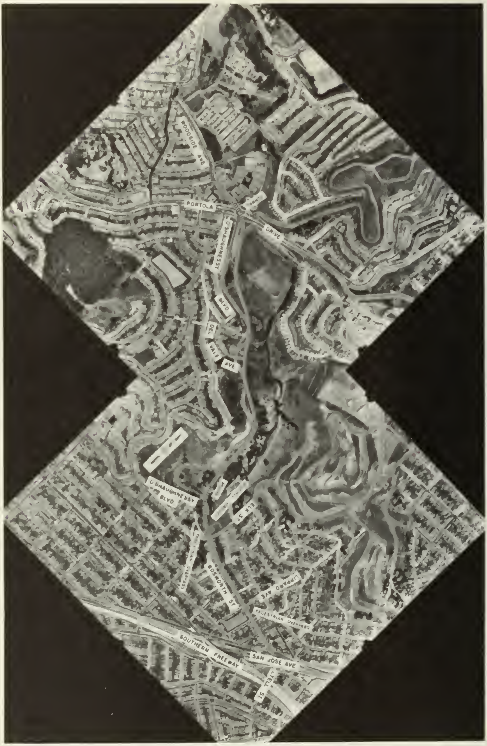


Aerial View of
Bosworth-O'Shaughnessy Project

Division of Traffic Engineering

Downtown Parking and Traffic Survey

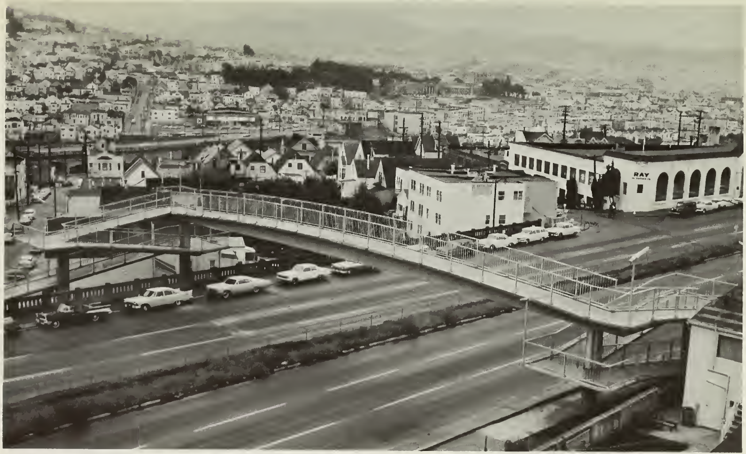
"Pardon me, Madam, could you answer a few questions about your trip Downtown?" With such an approach, almost seventy interviewers are gathering information about the destinations and trip purposes of the estimated 300,000 motorists who park in Downtown San Francisco every day. The $166,000 survey financed by the City and the State Division of Highways will pinpoint areas of parking space deficiency and provide valuable information for planning the circulation needs of the Downtown area. It is scheduled for completion in early 1966.

SAN JOSE AVENUE PEDESTRIAN OVERPASS

A pedestrian overpass over San Jose Avenue, west of St. Mary's Avenue, was completed as part of a continuing program to facilitate the crossing of school children over heavy Expressway traffic.

This marks the sixth overpass completed since 1958. Five additional crossings are either in the pre-contract or planning stage in connection with the Geary Expressway, the Bosworth Street widening, and the Army Street Circle rechannelization projects.

The San Jose Avenue Pedestrian Overpass consists of a 131-foot clear span prestressed concrete girder with reinforced concrete approach ramps. The design features extensive luminaire lighting and the upper sections of each ramp overhang the San Jose Avenue sidewalks. This allows construction on existing right-of-way with no additional property needed.



SAN JOSE AVENUE PEDESTRIAN OVERPASS
LOOKING SOUTH

ENTRANCE TO STRYBING ARBORETUM
SUNSET MAGAZINE DEMONSTRATION
HOME GARDENS

SUNSET MAGAZINE DEMONSTRATION HOME GARDENS

The first phase of the Recreation and Park Department's Sunset Magazine Demonstration Home Gardens in Golden Gate Park was completed this year at a contract cost of $50,000.

The project, proposed by the Director of the Strybing Arboretum, Mr. P.H. Brydon, is to help home owners with their gardens by demonstrating construction, landscape and planting ideas. The gardens will be a permanent yet changing, year-round display of seasonal plantings, new materials and a place to show new plant introductions by the Strybing Arboretum and Bay Area horticulturists.

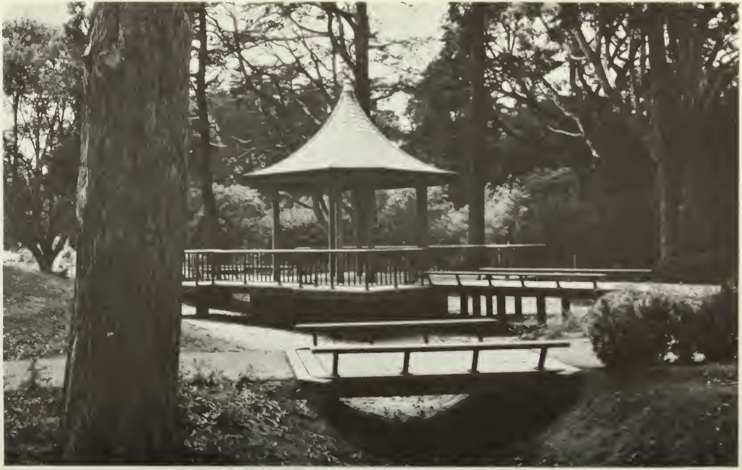
Landscape Architects, Eckbo, Dean and Williams, Thomas D. Church and Lawrence Halprin and their associates contributed their time with Sunset Magazine taking care of out-of-pocket expense. The project coordinator was Mr. Edmond Williams of the landscape firm of Eckbo, Dean and Williams.

Material donations were from the following organizations:

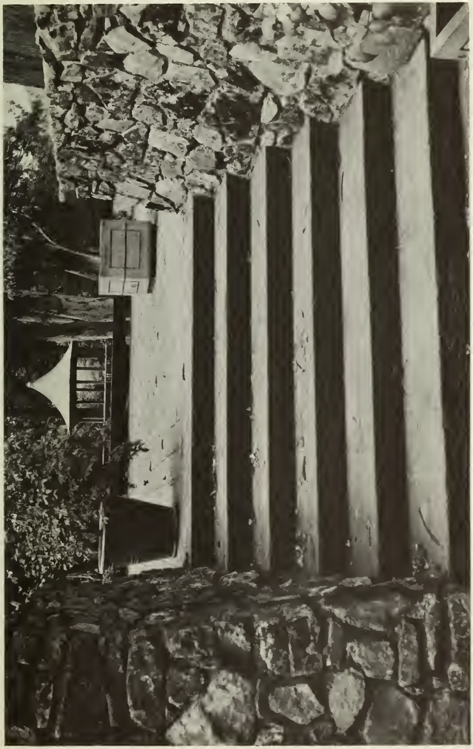
- California Redwood Association
- Western Pine Association
- Portland Cement Association
- Basalt Rock Company
- Bethlehem Steel Company
- Western Red Cedar Assoc.
- S.F. Electrical Contractors' Association

Financing of the project was through donations, parimutuel funds and ad valorem taxes.

A second phase of the project will proceed as soon as sufficient funds become available from the State of California Fairs and Exposition Division.



VIEW OF PAVILION



APPLICATION OF WOOD AND STONE

DIVISION OF STREETS AND HIGHWAYS

The Street Improvement Section (which includes the Street Inspection Unit), Street Reconstruction Section, and Highway Section, comprise the Division of Streets and Highways.

Thirty-three (33) construction contracts, designed by the Division, were awarded at a bid price of approximately $1,873,000.

Design Section	No. of Contracts	Bid Price
Highway	11	$1,071,002.25
Street Improvement	14	446,003.03
Street Reconstruction	8	356,181.10
Totals	33	$1,873,186.38

The contracts varied in size from $330,000 for the Great Highway Extension to $5,300 for minor reconstruction of the intersection of Portola Drive and Corbett Avenue.

GREAT HIGHWAY EXTENSION

Great Highway Extension, a new 4-lane divided roadway connecting Sloat Boulevard with Skyline Boulevard and replacing an existing roadway, was opened to traffic in April 1965. The new arterial is 120' wide and 0.8 mile in length, located entirely within City property under the jurisdiction of the Recreation and Park Department.

The existing 2-lane roadway, built over 40 years ago as part of the Skyline Boulevard, was a narrow inadequate connection between two multilane parkways, Great Highway and Skyline Boulevard. To implement the proposed expansion of the San Francisco Zoo, the Recreation and Park Department requested that the roadway be relocated to the south of the proposed area of expansion.

Great Highway Extension

The new thoroughfare, designed as a scenic parkway, is located along the Pacific Ocean coast line to the southerly end of the Zoo property, where it curves easterly to a connection with Skyline Boulevard. The 120-foot roadway section includes four 12-foot traffic lanes, two 11-foot shoulders and a 50-foot median. An extensive parking area, commanding a panoramic view of the Ocean Beach, Seal Rocks and Marin County coast, is provided on the ocean side of the road.

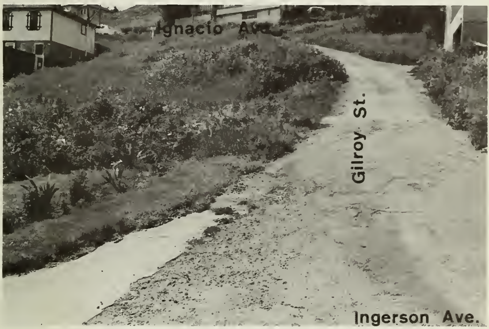
Bragato Paving Company of Belmont, California, was the contractor. Construction of the project started on July 20, 1964 and was completed on April 26, 1965. Total contract cost was $322,600.

Great Highway Extension
(Looking South)

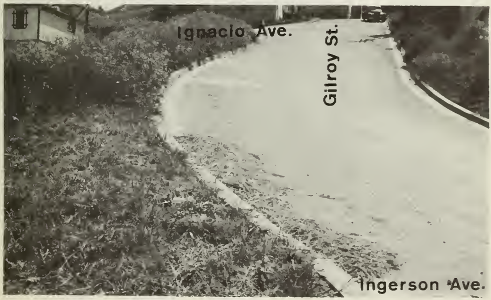
Great Highway Extension
(Looking North)

INGERSON AVENUE, GILROY STREET AND IGNACIO AVENUE

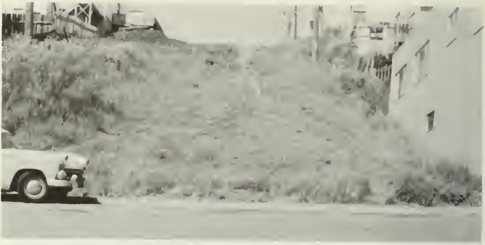
A quaint country-like hillside trail, comprising three unimproved city streets on a slope overlooking Candlestick Park, was transformed into a safe functional roadway opening up the area for development of the abutting homesites.



BEFORE



AFTER

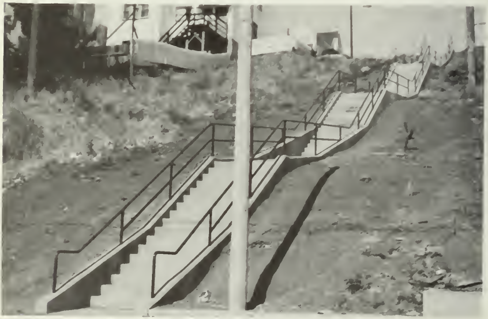


BEFORE

TOMPKINS AVENUE IMPROVEMENT

Dedicated streets too steep for roadways are often improved with only stairways, particularly when private property does not front on the street and there is a demand for a pedestrian way.

Thus, a stairway was constructed on Tompkins Avenue between Nevada Street and Putnam Street. This improvement is on a direct route to an elementary school and the City's Farmers' Market.

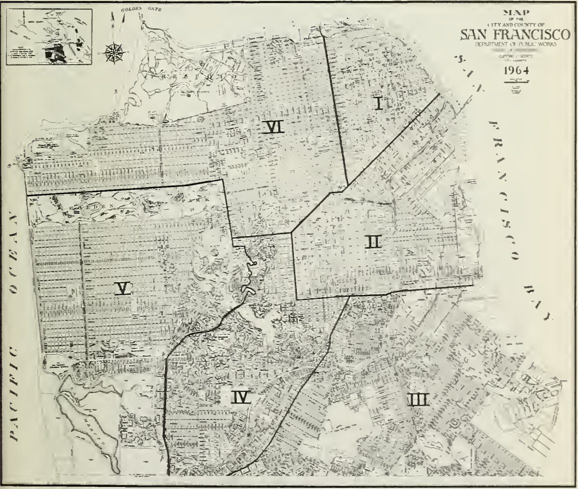


AFTER

STREET INSPECTION UNIT

Personnel in the Street Inspection Unit have traditionally been assigned to one or more functions each. Under this system each inspector covered the entire city on his specialty.

Reorganization was initiated this fiscal year to assign all functions on a district basis. Six districts have been established with one inspector assigned to each district responsible for all functions.



MAP SHOWING STREET INSPECTION DISTRICTS

CLAIMS

The Department of Public Works, through legal representation by the City Attorney, disposed of 68 claims for personal injury or property damage resulting from street or sidewalk usage.

This number of claims represents a portion of those requiring investigation by Street Inspection during the past fiscal period.

An accounting of the activity reveals that the City won or dismissed 26 cases and of the $1,528,947.00 sought by claimants, the amount paid through judgments or litigated settlements totaled $60,879.00 or only 3.98 per cent.

In addition to claims investigation, the department also assists the City Attorney's Office in defense actions pertaining to such claim matters by consultation therewith, by making depositions, by preparing answers to interrogatories and through court appearances.

CLAIM ACTIONS DISPOSED OF BY THE CITY ATTORNEY FOR THE DEPARTMENT OF PUBLIC WORKS FISCAL PERIOD 1964-1965

SIDEWALKS

	Number of Cases	Amount Claimed	Amount Paid
Judgments Paid	2	60,000	22,500
Litigated Settlements	31	792,340	29,400
Total Judgments and Litigated Settlements	33	852,340	51,900
Won or Dismissed	15	422,871	-
Total	48	1,275,211	51,900

GENERAL

	Number of Cases	Amount Claimed	Amount Paid
Judgments Paid	4	2,073	1,113
Litigated Settlements	5	46,788	7,866
Total Judgments and Litigated Settlements	9	48,861	8,979
Won or Dismissed	11	204,875	-
Total	20 68	253,736	8,979
Combined Total (Sidewalks and General)	68	1,528,947	60,879

STREET MAINTENANCE BY PUBLIC CONTRACT

In addition to the extensive maintenance program of street resurfacing by the Bureau of Street Repair, large continuous areas are resurfaced under public contracts prepared by the Street Reconstruction Section.

The resurfacing contracts include heater-planing of existing surfaces next to gutters, parking strips and outer street car track rail; reconstruction or replacement of defective, low or out of line curbs; reconstruction of driveways left high by heater planing adjacent to gutters; the replacement of sidewalks to the nearest flag line behind reconstructed curbs; and resurfacing with 1-1/2 inches of asphaltic concrete.

Three public contracts, at a total bid price of $218,850.00, were awarded this fiscal year for resurfacing 8.1 miles of city streets with asphalt concrete paving.

Resurfacing Operations on Entrada Court

WALLER STREET RECONSTRUCTION

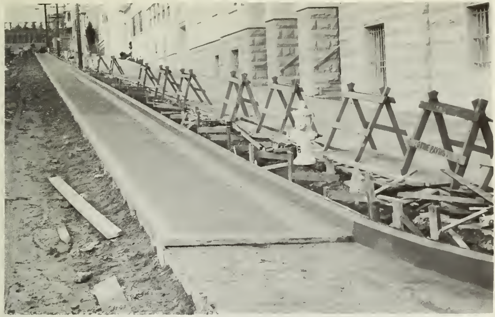
Waller Street, between Octavia Street and Laguna Street, was one of the few remaining streets in San Francisco with the original basalt block pavement surfaced with asphalt concrete. Although only one block long, it is the main approach from Market Street to the University of California Extension Division Campus on Laguna Street.

Reconstruction included removal of the existing curbs and pavement and construction of a new main sewer, monolithic concrete curb, and parking strip and asphalt on concrete paving by public contract. The utilities installed new water main and services and new gas main and services, including sidewalk gas cut-off valves.

At the suggestion of the Street Inspector, aided by the Bureau of Street Cleaning and Planting, property owners planted and will maintain 30 trees in the sidewalk area.

Street reconstruction was done by the Lowrie Paving Company for approximately $28,500. Tree planting, financed directly by the property owners, was performed by John H. Worley Tree and Garden Service.

Tree Planting Division's Brian Fewer
Checks Tree Planting Procedure
Southside Waller Near Laguna



North Side Waller
Looking West from Octavia

Asphalt Paving
Waller Street Reconstruction

Trees in Place
Looking North Along Northside
of Waller from Octavia

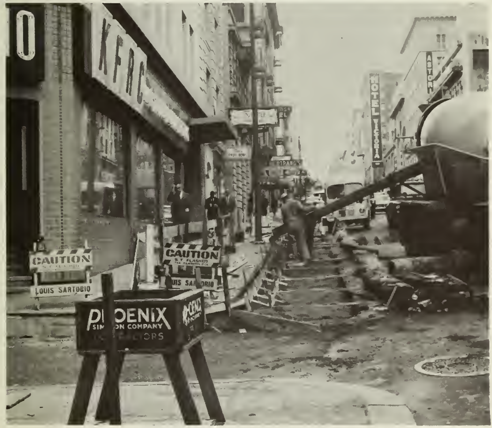
BUSH STREET WIDENING

Bush Street, a one-way couplet with Pine Street stretching across half the width of the City, is a major arterial for traffic eastbound into the heart of the downtown triangle shopping area and the adjoining financial district. The section of Bush Street between Van Ness Avenue and Kearny Street, is especially congested and was widened 10 feet to gain one additional traffic lane.

This section of Bush Street had two traffic lanes except during the morning peak hours, when it was augmented by a third lane along the north curb designated Tow-Away Zone. Peak hour traffic volumes were rapidly approaching capacity levels. Although traffic density decreased considerably for the remainder of the day, efficiency of the street also dropped due to the numerous delivery vehicles.

The widening was accomplished by narrowing the existing sidewalks from 15 feet to 10 feet. Many street light and traffic signal standards were relocated, as were parking meters, street signs, traffic regulatory signs, fire alarms, hydrants, mail boxes, and side sewer traps serving private properties. The project was complicated by the existence of sub-sidewalk basement walls, which the owners had to reconstruct on the new curb line.

The contract was awarded to the Fay Improvement Company at a contract cost of $203,461. Work started on July 15, 1964 and is scheduled for completion in the Fall of 1965.



Bush Street Widening
April 13, 1965
Between Kearny and Grant, looking toward Grant.
Shows extent of widening; Existing Curb in foreground.
New Curb being poured in Background.

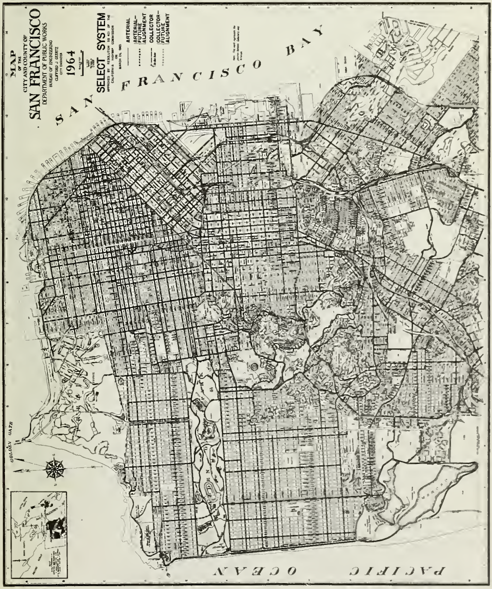
SAN FRANCISCO SELECT SYSTEM

While the Federal Aid Highway Act of 1958 brought to fruition an unprecedented national highway construction program, the Collier-Unruh Local Transportation Development Act of 1963 as enacted by the California State Legislature is an equally ambitious effort for implementing the construction of a comprehensive, but articulate, network of State highways, county roads and city streets throughout California.

An intricate piece of legislation, the Collier-Unruh Local Transportation Development Act, at once, added to, amended and repealed various sections of the Streets and Highways Code, the Revenue and Taxation Code and the Vehicle Code. But the most imposing aspect of the Act is the provision of increased gas tax revenues to local agencies with which to develop a local system of trafficways that is functionally coordinated with the State Highway System. The local system is designated as the Select System of county roads and city streets.

Although coextensively a city and a county, San Francisco has its Select System in city streets (not county roads). The San Francisco Select System of 323.34 miles was adopted by Resolution No. 83-65 of the Board of Supervisors on February 19, 1965 and was subsequently approved by the State Highway Commission on March 24, 1965. It is comprised of 177.42 miles in the Major Arterial classification and 145.92 miles in the Collector Street classification. The Select System map appears on Page 33.

In order to provide local participation in the Select System improvement program the Act requires "matching" expenditures by each city and county. The matching ratio of local agency funds to gas tax funds as designated by the Act starts with a 1:2 basis for the initial four-year period, reaching a 1:1 basis after seven years. San Francisco uses its Traffic Fines and Forfeitures Fund as the source of matching funds. A generalized chart of the "Apportionment and Expenditure of Gas Tax and Matching Funds for the Improvement of the Select System of San Francisco" appears on Page 34.


MAP
OF THE
CITY AND COUNTY OF
SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
CLIFFORD J. GEERTZ
CITY ENGINEER
1964
SELECT SYSTEM
APPROVED BY RESOLUTION OF THE CALIFORNIA HIGHWAY COMMISSION
ARTERIAL
ARTERIAL—FUTURE ALIGNMENT
COLLECTOR
COLLECTOR—FUTURE ALIGNMENT
SAN FRANCISCO BAY
GOLDEN GATE
PACIFIC OCEAN

APPORTIONMENT AND EXPENDITURE OF GAS TAX AND
MATCHING FUNDS FOR THE IMPROVEMENT OF
THE SELECT SYSTEM OF SAN FRANCISCO

JUNE 1965

NAME OF FUND						
	WITH REFERENCE TO STREETS AND HIGHWAYS CODE	SEC. 2107	SEC. 2107.5	SEC. 186.1	SEC. 2104	(NOT APPLICABLE — CITY FUNDS)
	WITH REFERENCE TO FUND PROGRAM	0.725¢ FUND	ENGINEERING FUND	1.04¢ FUND	1 5/8¢ FUND	MATCHING FUND
SOURCE OF FUND		STATE HIGHWAY FUND (TRANSFERRED FROM HIGHWAY USERS TAX FUND)		STATE HIGHWAY FUND	HIGHWAY USERS TAX FUND	FINES, FORFEITURES AND PENALTIES FUND
RECIPIENT OR USER		CITY		CITY AND COUNTY	COUNTY	CITY
BASIS OF APPORTIONMENT AND CORRESPONDING DATA		POPULATION	POPULATION GROUP	NO. OF REGISTERED VEHICLES	NO. OF REGISTERED VEHICLES	▨
		OFFICIAL CENSUS AS OF APRIL 1, 1964 — 755,700		REGISTERED FEE-PAID & EXEMPT VEHICLES (6-30-64) — 363,402		▨
ESTIMATED APPORTIONMENT LEGEND (INDEX XXX — $X,XXX,XXX — XX — XX) Ⓐ Ⓑ Ⓒ Ⓓ A — CITY BUDGET INDEX B — CITY BUDGET AMOUNT FROM ESTIMATED ANNUAL APPORTIONMENT. ACTUAL BUDGET AMOUNT MAY BE LARGER DUE TO PRIOR YEAR SURPLUS AND INTEREST. C — WHERE EXPENDED: SS = SELECT SYSTEM AS = ALL STREETS D — MATCHING REQUIREMENT: M = MATCHING NM = NON-MATCHING		• $2,675,170 ANNUALLY (VARIABLE AMOUNT) AT LEAST 40% MUST BE SPENT ON CONSTRUCTION AND RIGHT OF WAY. (INDEX 672 — $1,070,068 — SS — NM) UP TO 60% MAY BE SPENT ON MAINTENANCE (INDEX 671,673 — $1,605,102 — AS — NM)	• FIXED AMOUNT OF $20,000 ANNUALLY EXCLUSIVELY FOR PRELIMINARY ENGINEERING AND ADMINISTRATIVE EXPENSES IN RESPECT TO CITY STREETS. (INDEX 672 — $20,000 — AS — NM)	• FIXED AMOUNT AT $400/MO. TO CITY. (INDEX 674 — $4,800 — SS — NM) • FIXED AMOUNT AT $800/MO. TO COUNTY. (INDEX 682 — $9,600 — SS — NM) • VARIABLE AMOUNT BASED ON NUMBER OF REGISTERED FEE-PAID AND EXEMPT VEHICLES IN COUNTY. (INDEX 674 — $2,282,000 — SS — M) MATCHING FUNDS ARE ADDITIONAL MONEYS OF THE CITY NOT DERIVED FROM GAS TAXES (SEE FINES, FORFEITURES AND PENALTIES FUND, INDEX 687) REQUIRED MATCHING AMOUNT AS PERCENTAGE OF APPORTIONMENT EXPENDED: A) 1963-64 THRU 1966-67 — 50% B) 1967-68 — 66 2/3% C) 1968-69 — 80% D) 1969-70 AND THEREAFTER — 100%	• FIXED AMOUNT AT $1,667/MO. FOR ENGINEERING & ADMIN. EXPENSES. (INDEX 685 — $20,004 — AS — NM) • VARIABLE AMOUNT FOR SNOW REMOVAL AND STORM DAMAGE. SNOW REMOVAL ($0) STORM DAMAGE (INDEX 685 — $5,079.96 — AS — NM) • VARIABLE AMOUNT BASED ON NUMBER OF REGISTERED FEE-PAID AND EXEMPT VEHICLES ($3,200,000) 20% MUST BE SPENT ON THE SELECT SYSTEM (INDEX 682). (INDEX 681 — $600,000 — AS — NM) (INDEX 682 — $640,000 — SS — NM) (INDEX 683 — $330,000 — AS — NM) (INDEX 684 — $700,000 — AS — NM) (INDEX 685 — $576,604 — AS — NM) (INDEX 686 — $260,000 — AS — NM)	• $1,600,000 ANNUALLY (VARIABLE AMOUNT) (INDEX 689 — $456,600 — AS — NM) (INDEX 687 — $1,143,400 — SS — NM)

DIVISION OF RECREATION AND PARK ENGINEERING

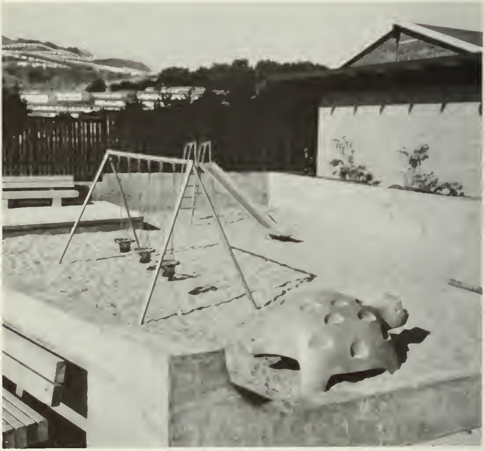
JOHN MCLAREN PARK

1964 was a banner year for the long awaited development of McLaren Park. The major road system through the Park was completed and work has started on three major projects, namely the Hahn-Visitacion Playground, the Wayland-University Playground and the installation of a major portion of the irrigation system.

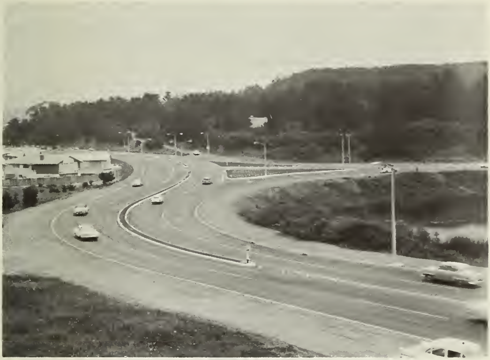
The Hahn-Visitacion Playground was designed by Hans U. Gerson, Architect, and comprises a fieldhouse with craft meeting room, kitchen, director's office and toilets, a children's play area, a baseball field and tennis court. With the existing swimming pool, this will complete a recreation unit that will be an important adjunct to the neighborhood.

The Wayland-University complex was designed by Vincent G. Raney, Architect, and features a circular clubhouse on the shore of one of the small lakes in the Park and a stable-maintenance yard complex for the policing and maintaining all of McLaren Park. A baseball field and a free play area large enough for football, surface court areas and small children's play areas will serve the neighborhood adjacent to the northeast corner of McLaren Park.

The first phase development of the irrigation system will fill the lakes which serve as reservoirs for the irrigation system; thus the first contract for planting of the park can be realized.



DIVISION OF TRAFFIC ENGINEERING



Realignment Project of
Lake Merced Boulevard and John Muir Drive

The possibility of a motorist taking an involuntary bath in Lake Merced has been practically eliminated by the rechannelization in roadway realignment at Lake Merced Boulevard and John Muir Drive. This location has a tight, tortuout "S" curve alignment and was the scene of many vehicular accidents over the years.

Statistics show that daily traffic had risen from 11,700 vehicles per day in 1959 to 14,200 vehicles per day in 1964, - an average annual increase of 5%. The "S" curve still remains, however the curve radii have been increased from 275 feet to 850 feet in one area, and from 275 feet to 290 feet in another. In addition the amount of curvature has been reduced by 18 per cent, the lanes widened to provide for 4 traffic lanes with a 10 foot left turn haven at John Muir Drive, and a median island installed to separate northbound and southbound traffic movements.

The intersection channelization now establishes Lake Merced Boulevard, which carries most of the traffic volume, as a major street and also brings all cross traffic movement into one area.

A contract for the amount of $78,000 was awarded to Baldwin Warren Company, Inc. on September 30, 1964 and work was completed satisfactorily in April 1965.

THE TRAFFIC OPERATIONS SECTION

A plumber is continually fixing a leak here, loosening a valve there, and tightening a joint, all in the attempt to keep the water circulation system going. The City traffic circulation system's plumber is our Operations Section headed by Gordon Hansen. A parking limit sign to give shopper parkers some curb space, a traffic signal adjustment to smooth traffic flow, and some pavement bars to reduce an accident hazard, all are part of the never ending effort to cope with the ever increasing traffic flow. Small items such as an adjusted traffic stripe or a block of Tow-away, while unspectacular in themselves, do achieve remarkable results when added all together, and, as part of the larger program of Trafficways development is partially responsible for keeping the rate of peak hour traffic movement equal to that of thirty years ago despite the huge increase in traffic volumes. A good example is the small curb cutback on Bayshore Boulevard at Industrial Street. Coupled with some Tow-away, the change enabled us to put three lanes of traffic through the intersection in the morning peak hours. This reduced backup on Bayshore Boulevard from 1500 feet to 200 feet and on Alemany Boulevard from 3500 feet to 600 feet.

CURB CUTBACK

SPEED ZONING

PAINTED CHANNELIZATION

TRAFFIC

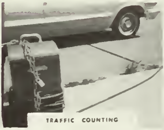
TURN PROHIBITION

SIGNAL ADJUSTMENT

CHANNELIZATION

OPERATIONS

TIME LIMIT PARKING



TRAFFIC COUNTING

PEAK HOUR RESTRICTION

NEW STREET PAINTING TRUCKS

The old and the new in traffic painting trucks is graphically illustrated in the accompanying photographs. The spanking new truck #613 is used for bus zone and guide line painting and replaces the unlamented 14-year old truck #695. It is part of a renewal program for automotive equipment that has replaced eight painting trucks in the past four years. In addition to increasing crew safety and painting efficiency, the new equipment improved the "image" of the DPW street painting crews.

Truck #695 After 14 Years of Service
Now Retired

Truck #613 Designed for Greater
Efficiency and Safety

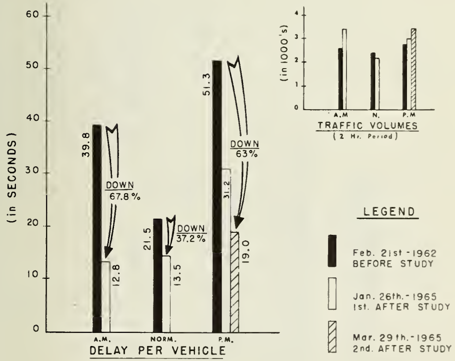
TRAFFIC SIGNAL CHANGES ON BROADWAY AT SANSOME AND BATTERY STREETS

A big traffic headache has been cured by the installation of new traffic signal controllers at the Broadway ramps of the Embarcadero Freeway. Traffic volumes indicated that backups extending several hundred feet, with resultant severe delay to motorists, were the result of inherent rigidities in the method of controlling the traffic signals. Changes were made in January 1965. The effects on vehicular delay are shown in Plates 1 and 2. Delay has been reduced in amounts ranging from 23 to 68 per cent despite a general increase in traffic volumes. An economic evaluation shows that these changes should save the motorists using these intersections $110,000 annually. (2 Graphs)

PLATE NO. 1

DELAY PER VEHICLE

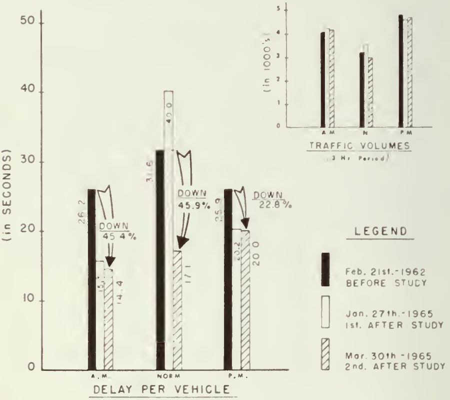
BROADWAY & BATTERY ST.



A.M. PERIOD.......... Taken from 7 a.m. to 9 a.m.
NORMAL PERIOD...... Taken from 1 p.m. to 3 p.m.
P.M. PERIOD.......... Taken from 4 p.m. to 6 p.m.

PLATE NO. 2

DELAY PER VEHICLE
BROADWAY & SANSOME ST.



A.M. PERIOD.............Taken from 7a.m. to 9 a.m.
NORMAL PERIOD....... Taken from 1 p.m. to 3 p.m.
P.M. PERIOD............Taken from 4 p.m. to 6 p.m.

TRAFFIC SIGNALS AND CHANNELIZATION

	Completed 1964-1965	Number In Place 6-30-65
SIGNALIZED INTERSECTIONS		
3-Light Installations	13	707
Equipped with Pedestrian Signals	5	189
Actuated Signals Added	5	172
CHANNELIZED INTERSECTIONS		
Concrete Islands	12	239
Raised Pavement Bars	-2	41
Total	10	280
DIVIDED ROADWAYS		
Concrete Center Islands, Miles	2.05	58.9

PARKING METERS

	Completed 1964-1965
New or Amended Zones	1
New Installations	40
New Installations in Public Parking Lots	191
Removals	85
Installations	396
Relocations	32
Temporary Removals	376
Approximate Cost 1964-1965 - $25,000.00*	
Total Number in Place June 30, 1965	12,592

The above table does not include the normal maintenance of parking meters performed by the Department of Electricity.

*Includes $12,500 for meters in Neighborhood Off-Street Parking Program.

TRAFFIC AND STREET NAME SIGNS

TRAFFIC SIGNS	Completed 1964-1965
Parking Signs Installed	206
Parking Signs Repaired or Changed	537
Parking Signs Removed	153
Other Signs Installed	391
Other Signs Repaired or Changed	839
Other Signs Removed	178
Stop Signs Installed	111
Stop Signs Repaired or Changed	268
Stop Signs Removed	30
Total	2,713

Approximate Cost 1964 - 1965	$45,000.00 estimated
Total Number in Place June 30, 1965	$29,000.00 estimated

STREET NAME SIGNS	
Street Signs Repaired or Changed	1,076
Street Signs Installed	48
Total	1,124

Approximate Cost	$27,000.00 estimated
Total Number in Place June 30, 1965	$ 7,500.00 estimated

PAVEMENT PAINTING

	Completed
Standard Striping, miles	643.3
12-inch Stripes, miles	135.6
Pavement Words (Units) (Cost included in other items)	71
Bus Zones (Units)	124.2
Parking Stalls (Units - all types)	58.7
New School Intersections	3
Total School Intersections in Place June 30, 1965	646
Pounds of Reflective Beads Used	34,860
9" Stripes - miles	97.4

TRAFFIC LEGISLATION

	Completed 1964-1965	Deleted 1964-1965	Number In Place 6-30-65
Stop Intersections	55	1	1,779
Yield Intersections	1	1	25
Through Streets, Miles	1.03	0	97.1
One-Way Streets, Miles	0.83	0	75.1
Speed Zones (other than 25)	6.0	0	65.2
Turn Restrictions (24 hours)	18	0	-
Turn Restrictions (Peak hours)	0	0	-
Meter: Block Faces	4	0	
Towaway: Block Faces	4	2	719
Time Limit: Block Faces	29	1	-
Angle Parking: Block Faces	10	11	-
Other Turn Controls	9	0	-
No Parking Any Time: Block Faces	20	0	-
Items discussed at ISCOTT*	596	-	
Items having Department Public Hearing	53	-	
Items to Board of Supervisors for Actions	79A		

*Interdepartmental Staff Committee on Traffic and Transportation
A-Nine (9) Items handled pursuant to Sec. 33.1 S.F.T.C. not included

- MISCELLANEOUS INVESTIGATIONS

		No. of Investigations Made
Written Reports to San Francisco Parking Authority		18
Advisory Appearance and Conferences with San Francisco Parking Authority		20
One-for-one Parking Checks for Department of City Planning	(Formal)	(442 stalls)
	(Informal)	(300 stalls)
Formal STOP & YIELD Sign Investigations		99
Formal Parking Control Investigations		76
Formal Traffic Signal Investigations		140
Other Formal Investigations		188

DIVISION OF DESIGN

UNDERGROUND DISTRICTS
PROCEDURES FOR ESTABLISHMENT

Under the provisions of Article II, Part II, Chapter III of the Municipal Code, San Francisco instituted an underground district program in 1899 which required the undergrounding of existing overhead facilities on the City Streets at the rate of not more than two and one half miles per year in each succeeding calendar year. Article II regulates the procedures for creation of future districts, specifies the obligations of property owners as well as utility companies, and places the responsibility for the conduct and enforcement of the regulations with the Director of the Department of Public Works.

For many years the Program followed a steady, orderly course, being taken up mostly by street work originated by the City, and the few private requests were then considered as a means of fulfilling the two and one-half mile provision. Within the last five years, however, the general public, through newspaper articles and the efforts of neighborhood associations, has become increasingly aware that such a program exists and has advantages such as neighborhood beautification and increasing property values.

At the present time the Department maintains a five-year Program of scheduled districts. There remain a sufficient number of unscheduled districts, public and private, to extend the Program an additional eleven years. In other areas such as St. Francis Wood and Parkmerced there are approximately sixty miles of streets which conform to the requirements of the undergrounding ordinance and which are intended to be officially declared in the near future in order to prevent overhead installations.

Underground Districts are originated in one or more of several ways: request by property owners or neighborhood associations, and request by the Board of Supervisors.

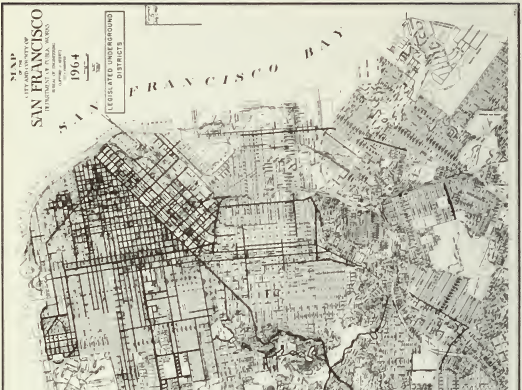
This undergrounding of the existing overhead electric facilities obligates each affected property owner to contract for and pay the cost of revising his home or building service to connect with the utility company's undergrounded facility. Such a reconnection is approximately $150-$200 per single family residence and proportionately higher for multiple units or commercial establishments.

Private requests are considered by this Department only when substantiated by a petition. The streets involved are added to the Underground District Program and investigated and then the petition is verified. Petitions are acknowledged by letter to all property owners within affected area as to the intended undergrounding of existing overhead electric facilities and also of future public hearings. Area is posted in accordance with Street Improvement Ordinance of 1934. At hearings - protests or petitions are either accepted or over-ruled by Director.

If denied, these petitions are held in abeyance for possible future consideration. If accepted, the district is approved by the Director and it is recommended to the Board of Supervisors for enactment. Board assigns the matter to its Governmental Services Committee for further hearings at which the district can be approved or disapproved. If this Service Committee does not approve - the district is returned. If approved, the matter is forwarded to the full Board for enactment.

Short or isolated districts are not usually desirable and acceptable for this underground program. Also one block alleys or other narrow ways are not considered for undergrounding and only by the express request of the petitioners can theybe included in a district.

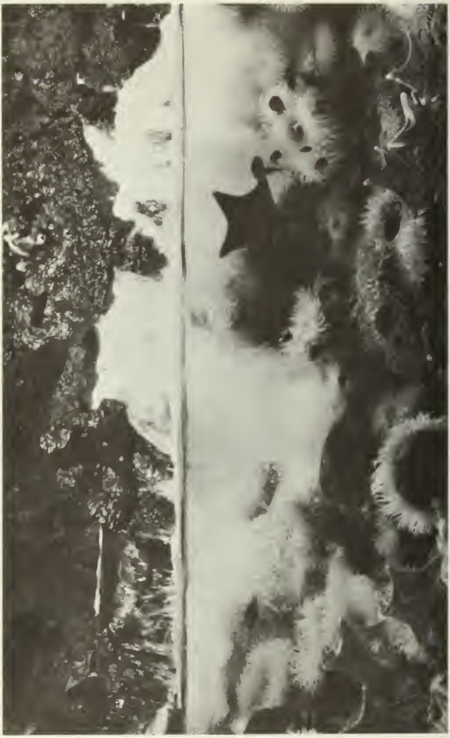
Undergrounding may, of course, be undertaken by the utility companies at any time at their expense, on streets not part of an underground District. Also, subdividers may do likewise at time of the construction and the cost is borne by the subdividers or those requesting the work. However, the affected streets are not included in the Program until such time that they are incorporated into a formally declared Underground District. No mileage credit is given for such streets. As of 1964, out of approximately 850 miles of City Streets, 162 miles have been officially undergrounded in 182 Districts.


MAP
OF THE
CITY AND COUNTY OF
SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
1964
LEGISLATED UNDERGROUND DISTRICTS
SAN FRANCISCO BAY
PACIFIC OCEAN
GOLDEN GATE

STEINHART AQUARIUM TIDE POOL DISPLAY TANKS

Much colorful marine life exists in tide and wave pools in the cliffs and rocks along the seashore. To develop the proper ecology and to display properly these animals and plants, Dr. Earl S. Herald, the Aquarium Superintendent, wished to create two special display tanks: one to simulate the flooding and ebbing tide and the other to simulate the constant flooding caused by crashing breakers.

Dr. Herald and his staff, the Bureau of Engineering, and the Bureau of Building Repair designed and installed the two tanks. The automatic systems are ingenious and effective. The tide pool tank is constantly pumped out into an overhead 150-gal. tank until an air



Steinhart Aquarium
Tide Pool Display Tank
After Flooding & Ebbing Tide

gap in a syphon loop is closed. This starts the large syphon which rapidly empties the overhead tank into the display tank and the process is repeated. The wave action tank is constantly pumped out into a carefully designed overhead dump bucket. When the large 90-gal. bucket is nearly full, the center of gravity moves to a point that upsets the bucket sending a crashing wave into the display tank and the process is then repeated.

CULCOP

Committee for Utility Liaison on Construction and Other Projects

In May 1963 at the suggestion of the Assistant City Engineer an epxloratory meeting was called of the Utilities Companies and Bureau of Engineering Personnel to consider the advisability of arranging for routine meetings between the various agencies to coordinate construction work on City Streets.

> The Committee so formed has continued under the Chairmanship of the Section Engineer of the Standards, Utilities, and Estimates Section. Regular monthly meetings are attended by representatives of the Pacific Telephone and Telegraph Company, the San Francisco Water Department, the Pacific Gas and Electric Company, the Municipal Railway, Bay Area Rapid Transit, Bureau of Street Repair, the State Division of Highways, together with Engineers from the Bureau of Engineering's Division of Design, Division of Streets and Highways and Construction Division.
>
> These Meetings have provided the Utility Companies and the City an opportunity to discuss various field problems and to work out solutions to them. In addition, it has been a very successful procedure in expediting coordination on construction contracts.

CAYUGA AUXILIARY SEWERS

The purpose of providing a new trunk line was to eliminate flooding along Cayuga Avenue and also to increase the capacity of the existing main drainage system in the South-East quadrant of the City.

This sizeable project was divided into 4 contracts in order to increase competition in bidding. The first two contracts are now in progress. Further competition was provided by having alternate bid items for construction by monolithic concrete (which proved to be less expensive by bid) or R.C.P. This also gave large pipe manufacturers a chance to submit proposals.

Due to the heavy traffic flow on Alemany Boulevard and length of the proposed project (nearly a mile), it was decided and agreed upon that construction should be postponed and deferred until the Freeway was opened.

SLOAT BOULEVARD IRRIGATION SYSTEM REPLACEMENT

In recent years there has been a sizeable increase in the number of landscaped areas along the City boulevards and main thoroughfares. Maintenance of these facilities has been accomplished through diligence and constant care.

To better utilize the available manpower for the proper care of these facilities, labor-saving devices and methods have been used.

One of the better means of accomplishing this end has been the installation of automatic irrigation sprinkler systems. A good example is the contract completed this year for replacement of the irrigation system in Sloat Boulevard from St. Francis Circle to 39th Avenue. Formerly, this mile-and-one-half of landscaped medions was irrigated manually with garden hoses. Since the completion of this automatic sprinkling system, these islands are irrigated at regularly set intervals. Now, over 90% of the manpower previously used for this work, can be diverted to other duties not susceptible to automation.

Automatic Irrigation of Center Island on Sloat Blvd.

STREET LIGHTING BOND ISSUE

At the June Election, the first improvement street lighting Bond Issue in the history of San Francisco was passed. This issue will replace obsolete and inadequate lighting systems in underground districts throughout the City.

The Department of Public Works pointed out in their Report on Street Lighting that with the exception of recent installations, all of our street lighting in San Francisco was below acceptable standards. Furthermore, it was pointed out that equipment in some locations had deteriorated to the extent that a hazard existed. In this manner, a need for a Bond issue was established.

Deteriorated concrete pole on Great Highway. One of reasons for the Bond Issue

Also, considerable money could be saved annually by replacing these existing inadequate, obsolete, and expensive street lights with modern efficient units. An example of this exists on Broadway between Battery and Powell Street, which costs $1,830.00 per annum for operation and maintenance, whereas a new and adequate installation for this important street would only cost $821.00 per year. Similar savings are possible at many locations throughout the City.

These Bond funds will provide replacement of about 7,000 old street lights and an annual savings of about $60,000 in the cost of operation and maintenance. Most important too, is the fact that the lighting will be improved to recommended levels.

Underground Districts
New street light in Western Addition Redevelopment Area. Typical of installation to be constructed with 1964 Street Lighting Improvement Bonds

STREET LIGHTING IMPROVEMENT IN OVERHEAD DISTRICTS

An important part of the street lighting improvement program started by the Department of Public Works is the work going on in the districts having overhead wiring. About 85% of the City's street mileage is in such districts.

This program is a joint effort of the Department of Public Works, Public Utilities Commission and the Pacific Gas and Electric Company. A total of 185 plans were prepared by the Department of Public Works showing the locations of some 18,000 street lights. These plans were transmitted to the Public Utilities Commission who issued orders to the Pacific Gas and Electric Company for installation of the lights. The Department of Public Works then furnished inspection and supervision for the project.

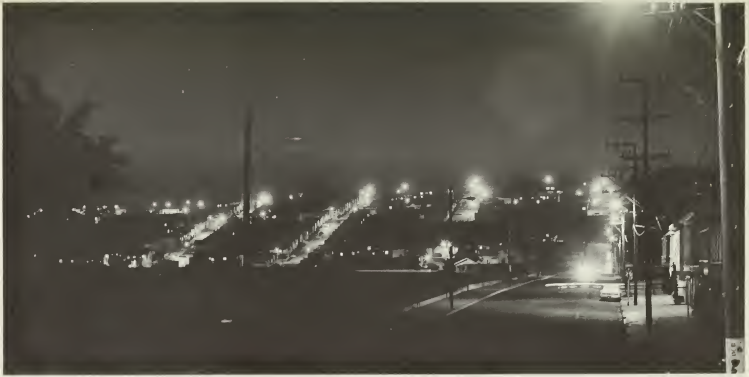
Due to tremendous public interest, volumes of correspondence and telephone calls have developed. Each question is individually handled by a joint effort of the staffs of the Department of Public Works and Public Utilities Commission.

The first of the new street lights were installed in December of 1963. By January of 1965 about 6,300 new street lights had been installed or slightly more than 1/3 of the total to be installed. An interesting correlation with night crime was noted.

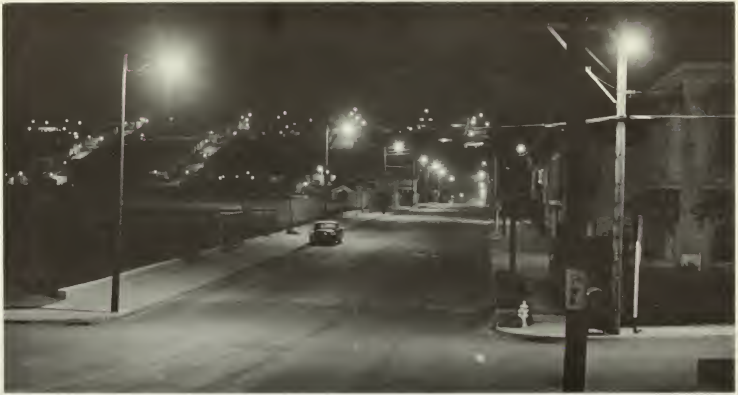
Table I - Total Crimes

Year	Day	Night	Ratio Night/Day
1962	1120	2830	2.53
1963	1219	3091	2.54
1964	1613	3609	2.25

We expect this phase of the street lighting improvement program to be complete by the end of 1965.



PG&E Co
S.F. Street Lt. Conversion Program
1964-65
University & Felton Sts.
(Looking Toward Burrows St.)
BEFORE

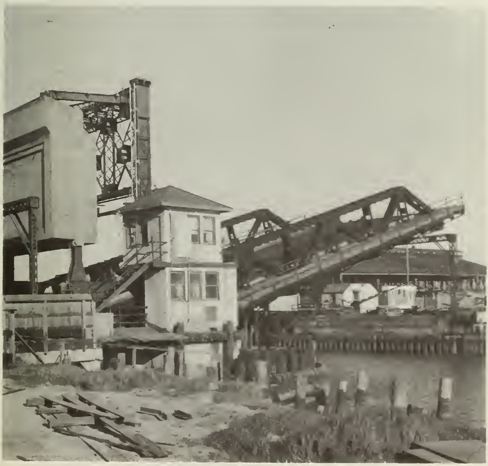


PG&E CO.
S.F. Street Lt. Conversion Program
1964-65
University & Felton Sts.
(Looking toward Burrows St.)
AFTER

FOURTH STREET MOVABLE BRIDGE: MECHANICAL MODIFICATIONS

The mechanical modifications recently completed on the Fourth Street bridge were the first phase of a rehabilitation program to completely modernize the mechanical equipment and facilitate the operation of the 50-year old structure.

The leaf lock mechanism, which secures the bridge moving leaf to the roadway pedestal when the bridge is down, formerly consisted of a motor, gear train, shafting, bearings, and locking mechanisms, all of which were mounted on the underside of the moving leaf and thereby subject to corrosion from weather elements.

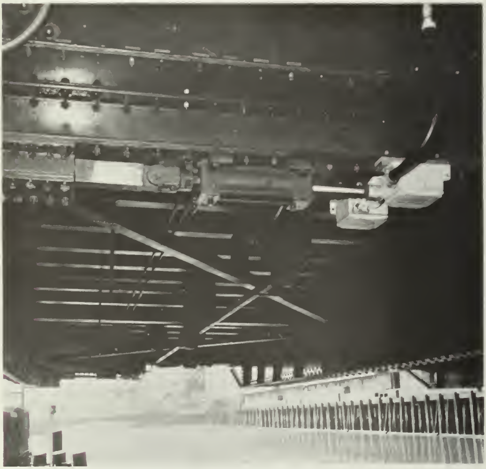


4th St. Bridge - February 1965 - Under Repair

The entire locking system was redesigned utilizing high pressure oil to actuate a hydraulic cylinder with the locking mechanism itself being the only moving part.

Use of the hydraulically operated system now allows all drive equipment, such as motor, pump and controls, to be located in the Operator's House, thereby providing protection and facilitating maintenance.

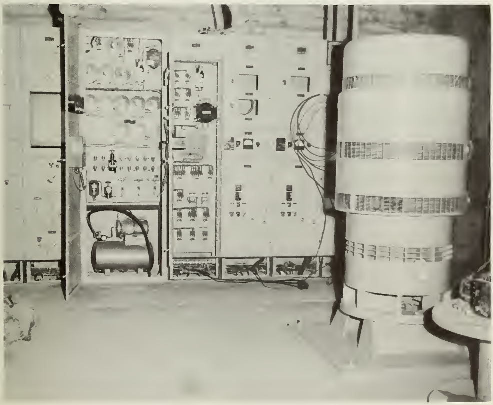
The new hydraulic oil shock absorbers, which were mounted on the roadway pedestal rather than on the moving leaf to provide for better accessibility, now provides a constant decelerating force during closure of the bridge.



Fourth Street Bridge
Hydraulically Operated Leaf Locks

RICHMOND-SUNSET SEWAGE TREATMENT PLANT MODIFICATIONS TO SUNSET SEWAGE PUMPING STATION

One of the top priority projects of the 1960 Bond Issue was for the enlargement of the Richmond-Sunset Sewage Treatment Plant, which was constructed in 1937. Part of the enlargement program was to increase the pumping capacity that diverted the sewage from the Sunset District to the influent system of the treatment plant. Because of the growth of these areas, pollution also had increased in recent years. The dry weather flow had increased to a point where some 1,000,000 gallons per day of raw sewage would overflow into Mile Rock Effluent Outfall which discharges near the Ocean beaches. Completion of this project has enabled the Station not only to handle all present sanitary flow but also the anticipated future increase in flow to the year 1980.



Sunset Pump Station
Left: Electric Panel - doors open to show controls
Right: A main sewage pump motor with variable speed
Unit. Construction not complete

An economic study was made and to correct this condition, a contract was awarded to Fred J. Early Company in the amount of $243,470. Three new variable speed pumps capable of discharging a total of 33 million gallons per day (more than four times the original capacity) and three 20 inch diameter force mains were installed. Also the existing pump station was modified without adding to the structure. The extra pumping capacity was designed to accommodate the dry weather sewage flow, infiltration and rainfall up to an intensity of 0.02 inches per hour. Similar to the Lake Merced Pump Station, the design included a flow-matched pumping system, which allows the pumping rate to automatically follow the rate of sewage flow. This feature eliminates surges, fixed pumping rates, and large sumps necessary with constant speed pumping.

The station is equipped with three 16" x 16" vertical dry pit centrifugal pumps each having a capacity of 7,600g.p.m. at a maximum speed of 850 r.p.m. and each being driven through flexible shafting by a 100 HP induction motor coupled to a magnetic drive for variable speed operation. A separate 20-inch diameter discharge main was constructed for each pump giving flexibility in operation. The station also incorporates the use of a screening basket to trap and remove material larger than 2-1/4 inches. Each discharge main is connected with a magnetic flow meter for the indication and recording of flow rates as well as a totalizer for the indication of the total flow pumped.

Completion of this Station is the first phase of the enlargement program to equip properly the Plant for primary treatment of all sewage from the Richmond-Sunset area to the year 1980.

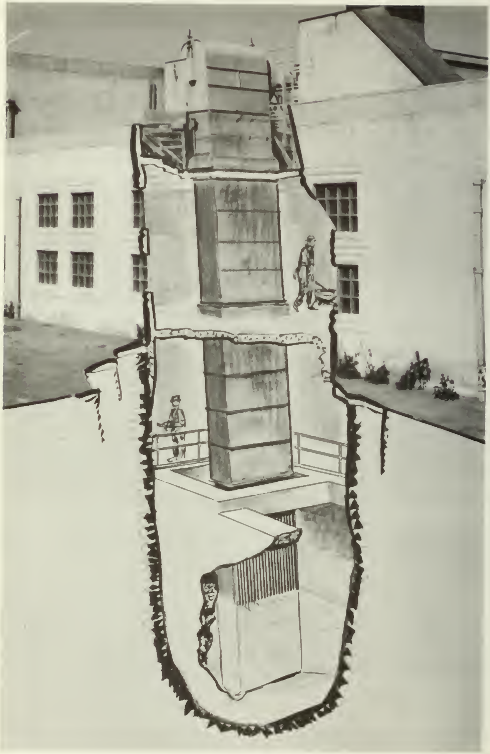
SOUTHEAST SEWAGE TREATMENT PLANT
(Reconstruction for the Removal of Grit and Screenings)

A contract was awarded to Norman C. Peterson Company for the amount of $294,166 to improve the grit and screening facilities at the Southeast Sewage Treatment Plant. These new facilities were designed by Consoer, Townsend and Associates, consulting engineers.

The screenings were removed through two bar racks with 3/4" clear openings. Now the screenings are pulled up the 60 ft. high bar rack (the tallest in the U.S.A.) by 18 straight rakes and 2 bucket rakes. They are discharged to a horizontal conveyor belt which transports them to a 2-compartment 1000 cubic foot storage bin.

The grit removal facilities are now designed to remove 48 cubic yards of grit per day. This includes a Rex Chain Belt Grit Treat Separator designed to separate 95% of the 65% mesh grit. The grit slurry is continuously pumped at a rate of 300 g.p.m. through a Wemco Hydrogritter, located on top of the grit-screening storage bin. The screenings and sand will be hauled later on to the sanitary fill for disposal.

These improved facilities will now eliminate the present need of throttling the incoming sewage, the reduction of the grit loading to the digesters and the reduction of labor necessary to maintain this portion of the treatment plant.



DIVISION OF SURVEYS AND MAPPING

SUBDIVISIONS AND STREET CHANGES

TABLE 1-A

SUBDIVISION MAPS

Development of land in San Francisco, because very few large areas in the county remain unimproved, is shifting to condominium subdivisions and small tracts, the latter often by Record of Survey maps. Maps processed relating to subdivisions follow:

Tentative Subdivision Maps examined and approved:

- Mount Sutro Woods No. 2

Final Subdivision Maps examined, approved and recorded:

- Dolores Heights Plaza
- Mira Glen

Record of Survey Maps examined and recorded:

- University Homestead Association - Lot 8, Block No. 114
- Portion of 100 Vara Block 401
- Golden Gate Heights - Portions of Block 2048
- Golden Gate Heights - Portion of Block 2048A
- Portions of Railroad Homestead Association and Columbia Heights Tract
- Golden Gate Heights - Portion of Block No. 2049A
- Portion of Sunset Block No. 1074
- Diamond Heights Unit No. 3 - Portions of Block No. 7542

STREET DEDICATION MAPS APPROVED AND RECORDED

Widening of Bonview Street southwesterly of Coso Avenue

Opening of Owens Street from Sixth Street to Sixteenth Street

Widening of the intersection of Market and Castro Streets

Extension of DeHaro Street between Twenty-fifth Street and Twenty-sixth Street

Opening of Twenty-sixth Street from the west line of Wisconsin Street to the former west line of DeHaro Street

Opening various streets in Alice Griffith Garden Home Housing Project

Opening of Kiska Road and Reardon Road at Hunters Point

Opening of Gilman Avenue between Griffith and Donahue Streets

Opening of Giants Drive southerly from Gilman Avenue

Widening and Extension of Ingerson Avenue southeasterly of Griffith Street

Opening of Hunters Point Expressway from Gilman Avenue to County Line

Widening and Extension of Jamestown Avenue from Hunters Point Expressway to Redondo Street

Opening of Harney Way from Jamestown Avenue to County Line

STREET VACATIONS APPROVED

Spring Street - California Street to Summer Street

Summer Street - Kearny Street to Spring Street

Various streets in McLaren Park and Luther Burbank Junior High School site

Keith Street - Egbert to Donner Streets

Hester Avenue - Easterly from Wheeler Avenue

Langton Street - At Bryant Street

Stoneman Street - Shotwell Street to Aztec Street

STREET VACATIONS APPROVED - Continued

Hollister Avenue - Northerly of Giants Drive
Clarence Place - Southwest of Townsend Street
Juniper Street - Harrison Street to Bryant Street
Portions of Detroit Street, Cuba Alley and Lassen Alley
Unnamed Alley near Sacramento and Webster Streets

CHANGES IN OFFICIAL WIDTHS OF SIDEWALKS

Castro Street - Market Street to Sixteenth Street
Market Street - Castro Street to 200 feet easterly
Minerva Street - Plymouth Avenue to Summit Street
Pine Street - Franklin Street to Presidio Avenue
Fourteenth Street - Market Street to Alpine Terrace

FIELD SURVEYS

TABLE 1-B

NUMBER OF SURVEYS

A total of 195 field surveys, undertaken and completed by the six survey parties of the Division's Field Engineering Section, comprised the following:

Public Improvement Surveys for:	
Public Assessments and Private Contracts	23
Contracts Financed by City	158
Site and Lot Location and Topographic Surveys for:	
Bureau of Architecture	10
Recreation and Park Department	2
S. F. Port Authority	1
City Attorney	1

Survey fees received by the City for Public Assessment and Private Contracts totaled $10,000.

EXTENT OF SURVEYS

The aggregate length of field surveys completed totaled 60.05 miles, in addition to which 70.23 acres of topographic surveys were completed. The aggregate length, which was the sum of the various construction project lengths except were not applicable, comprised the following:

Cross sections for street, structure, sewer and drainage design	4.00 miles
Line and grade for construction of:	
Sewer and drainage systems	3.28 miles
Street Grading	0.35 miles
Pavements and curbs	1.55 miles

EXTENT OF SURVEYS (Continued)

Line, grade and cross sections for reconstruction of existing:	
Pavements	2.67 miles
Pavements including track removal	
Curbs and gutters	
Subsidence Areas	10.13 miles
Slide Areas	1.03 miles
Block, Site and Lot:	
Surveys (boundary lengths)	4.20 miles
Resurveys (frontage lengths)	1.33 miles
Reference marks (frontage lengths)	4.37 miles
Monument lines checked	16.76 miles
Grade Studies	-
Miscellaneous surveys (not included above)	9.15 miles
Post-Construction examination of:	
Street Grading	0.42 miles
Sewer and drainage systems	0.38 miles
Pavement and curbs	0.43 miles

MONUMENTS

In addition to the aforementioned checking of existing monument lines, 260 survey monuments were set or reset, and referenced, and 56 monuments examined for repair and, if necessary, repaired.

PRECISE LEVEL SURVEYS

Precise level bench marks established, and elevations redetermined on existing bench marks totaled 842 required the running approximately 82.1 miles of precise levels in addition to the aforementioned survey mileage.

OFFICE MANAGEMENT

PERSONNEL AT BEGINNING AND END OF FISCAL YEAR:

DIVISION	JULY 1, 1964	JUNE 30, 1965	CHANGE
ADMINISTRATION	8	8	
STREETS AND HIGHWAYS	40	39	-1
RECREATION AND PARK ENGINEERING	16	14	-2
DESIGN	100	99	-1
SURVEYS AND MAPPING	41	38	-3
CONSTRUCTION	24	25	+1
TRAFFIC ENGINEERING	28	28	
OFFICE MANAGEMENT	14	15	+1
TOTAL	271	266	-5

(1) Employees in Professional Classifications	114
Employees in Sub-Professional	100
Employees in Clerical	52
	266

PAYROLL:

The following tabulation shows the number of employees and total payroll charged to General, Project and Road Funds:

SOURCE OF PAYROLL FUNDS	EMPLOYEES 1964-65	PAYROLL 1964-65
General Fund		
Budget Payroll	67	$ 713,638.06
Project Funds (Gas Tax, Bond, General, Etc.)	171	1,529,587.02
Road Fund - Traffic Engineering	28	245,401.79
	266	

In addition to the above, the Bureau began on March 8, 1965 the Downtown Parking Survey (a 7-month project):-

There were 51 temporary employees whose payroll to June 30, 1965 totalled $[illegible].00.

RETIREMENTS

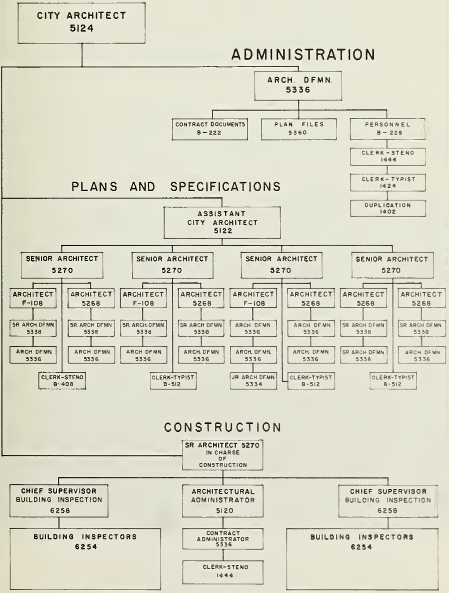
During the past year, the following employee was retired and recognition is given to her faithful service to the organization.

Elayne Likins	September 1, 1964	General Clerk Stenographer	11 years

IN MEMORIAM

Thomas G. Ward	August 11, 1964	Junior Civil Draftsman	1 year.

BUREAU OF ARCHITECTURE
DEPARTMENT OF PUBLIC WORKS
ORGANIZATION CHART
JULY 1 1965



BUREAU OF ARCHITECTURE

Charles W. Griffith, City Architect

The responsibility of design and construction of new City buildings, and the modernization, remodeling, and such maintenance projects of existing City buildings rest upon the Bureau of Architecture.

Basically, the activities of the Bureau are divided into two separate but related functions:

(1) preparation of plans, specifications, and estimates, and
(2) supervision of construction.

The Bureau Organization chart briefly indicates the breakdown of divisions which have been found to be most efficient in processing the work of the Bureau.

Administrative Division handles the fiscal arrangements, work orders, personnel, plan files, assembly of specifications, bid forms, and contract documents.

Preparation of plans and specifications, maintenance of formal and informal relationships with the client agency, supervision of assigned personnel are a few of the duties of the Plans and Specifications Division.

Construction Division supervises and inspects all work under construction.

Responsibilities also include progress and validity of contract work, contract payments, certification of completion of the contract. A secondary responsibility entails the thorough inspection of a completed job at the end of the year bonded guarantee period. Any defect due to faulty labor or materials, not evident at completion of job but which has become apparent during the one-year shakedown period, must be corrected by the Contractor.

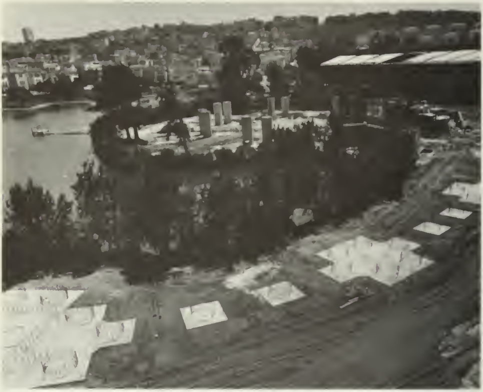
As of June 30, 1965, 67 employees will have handled a total of 320 jobs totaling approximately $66,000,000. In addition, preliminary data has been prepared for three additional bond issues in the amount of $82,170,000.

1959 PALACE OF FINE ARTS

This building was built for the 1915 Pan Pacific Exposition Fair at a cost of $632,000 and is the only building not demolished after the fair. However, it has now gradually deteriorated and some rehabilitation was completed on it by the W.P.A. during the depression years.

In 1957, the State offered $2,000,000 toward the permanent rehabilitation of the Palace provided matching funds were secured from other sources. In 1958, a bond issue of $3,600,000 also failed to receive the required 2/3 majority. In November of 1959 a bond

Palace of Fine Arts
Photo Taken in 1917



Palace of Fine Arts
April 26, 1965

issue of $1,800,000 was approved and Mr. Walter Johnson provided $2,000,000 for the matching funds to the City. The project was then referred to the Department of Public Works as soon as the property was cleared in February of 1961.

William G. Merchant and Associates and Weldon Becket and Associates were engaged as project architects.

Preliminary plans and estimate contemplated by the Bond Issue was $12,800,000. John R. Cahill, a prominent builder, proposed the Palace be rebuilt in poured concrete and that the end pylons be omitted. The Board of Supervisors approved Cahill's plan and directed the Department to get bids thereon. On November 20, 1963 bids were received in excess of the funds available by $1,600,000. Mr. Johnson and the Palace of Fine Arts League provided $750,000 and $850,000 was provided in the 1964-65 budget.

Work started on July 16, 1964 and will be completed in July 1967. As of the present date, 29.7% is completed with 28.4% of the time used and almost exactly on schedule.

$2,725,000 EXPANSION OF DE YOUNG MUSEUM

Construction was started in July of 1964 and with an elapsed time of 56.8% and 58% of the work completed as of June 1, 1965, it is expected that the buiding will be furnished and equipped during the Spring of 1966.

The Brundage art objects will be installed in early Summer of 1966, and a grand opening is scheduled in July of 1966 to view the art collection.

Northwest corner of construction site of addition to M.H. de Young Museum, Golden Gate Park, San Francisco, progress as of May 28th, 1965. Carl W. Olson and Sons of San Mateo - General Contractors.

1964 SCHOOL BOND ISSUE

The 1948 school bond issue $48,890,000, which is now completed, included the following major projects in addition to much modernization and reconditioning of existing schools:

27 Elementary Schools (23 new schools, 4 additions)
4 Junior High Schools (3 new schools, 1 conversion)
2 Senior High Schools (2 additions)
2 City College buildings
1 Trade and Vocational School

The 1956 School Bond Issue, $27,000,000, which is completed with exception of the Raphael Weill School Addition, now under construction, included the following major projects in addition to much modernization and reconditioning of existing schools:

6 Elementary Schools (1 new school, 2 replacements,
4 Junior High Schools 3 additions)
5 Senior High Schools (2 new schools, 3 athletic fields)
2 City College Buildings
1 Vocational School Addition

Raphael Weill School Addition

Anshen and Allen Architects

The 1964 School Bond Issue, $31,464,500, is based on a number of needs of the school department, not taken care of by the previous school bond issues, including the replacement of elementary schools and the construction of new secondary schools, as follows:

1. Diamond Heights Elementary School
2. O'Shaughnessy Blvd. Sr. High School
3. City College Educational Services Building
4. City College Classroom and Laboratory Building

DIAMOND HEIGHTS ELEMENTARY SCHOOL
SAN FRANCISCO UNIFIED SCHOOL DISTRICT
CORLETT and SPACKMAN, ARCHITECTS, A.I.A.

5. Carolina Street Junior High School
6. Paul Revere Elementary School
7. Starr King Elementary School
8. Burnett Elementary School
9. Bret Harte Elementary School Addition
10. Raymond Avenue Junior High School
11. Eldorado School Addition
12. Grattan Elementary School
13. Cabrillo Elementary School
14. Replacement of temporary classrooms
15. Modernization and Rehabilitation

This bond issue was approved by the electorate in November 1964, work started early in 1965, and will be completed in 1970.

In addition to the bond work, and the usual rehabilitation work, recondiioning and maintenance work normally completed for the school district, the Bureau is also processing a new elementary school for Treasure Island which is practically all Federal financing. The estimate for this new elementary school is $450,000.

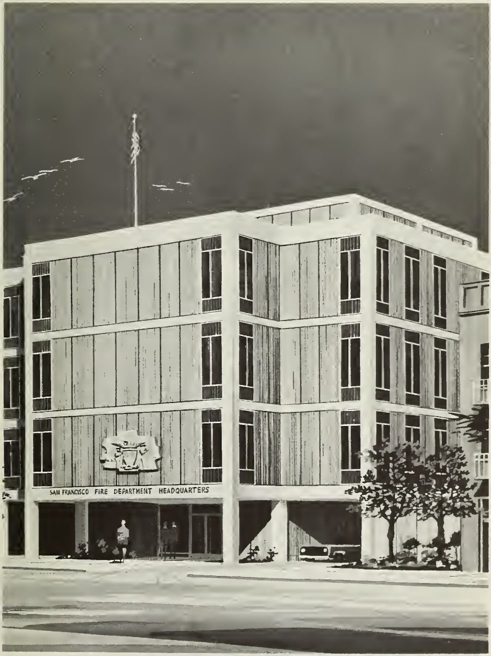
City College Horticulture Building
North Elevation Looking Southwest
May 5, 1965

1964 Fire Department Bond Issue

The 1964 Fire Department Bond Issue was approved by the electorate in November, 1964.

Expenditure for new construction of a S.F.F.D. Headquarters was estimated at $1,055,000. Total new construction cost for Fire Stations at Engine Companies #7, #28, #33, #36, #37, and #43 was estimated at $1,954,000. Reconstruction cost of Fire Engine Companies #2, #3, #8, #16, #17, #18, #19 and Truck Company #1 was $1,632,000. Rehabilitation improvements to kitchens, bathrooms, and other needed items amounted to $250,000. This total amount of Bond Issue was $4,891,000. All these costs were based on current estimates of the Bureau of Architecture.

The Board of Supervisors also approved $20,000 for a competition for new firehouses for Engine Companies #33, #36, #37, and #43 in May 1965. This competition will be held during the fiscal year to determine the appearance of these firehouses.


SAN FRANCISCO FIRE DEPARTMENT HEADQUARTERS

Fire Department Headquarters
Final Drawings Under Preparation
July 1, 1965

1964 JUNIOR BOYS RANCH SCHOOL BOND ISSUE

In January of 1965, funds were made available for a master plan study for a Junior Boys' School at the Ranch.

It was decided that this would not be a duplication of the existing Ranch and that the age range of the proposed facility, i.e. 10 to 15, would preclude a work program as presently used at the Ranch for older boys. This proposed program will be on a full-time school set-up.

Younger boys generate different problems and so a study has been made as to a different approach for dormitories, play areas, etc. Visits to other Junior Camps and cooperation from the State Authority personnel have assisted in gathering data to plot a suitable Junior Program.

On March 20, a suitable and acceptable site for the Ranch was approved by the authorities and the Bureau of Architecture started the survey.

The program was developed with the aid of the Chief Probation Officer, Mr. Thomas Strycula, Camp Director Edward Chay, and their staffs, as well as with Dr. John Roberts, Messrs. Leslie Russell and James Kilkenny of the Department of Education.

The suggested building designs reflect a concern for the younger, immature boy. Also, in generalities, the masonry walls and heavy timber construction are similar to those of the existing Ranch buildings.

The design work is progressing favorably at the present, and it is expected that the entire job will be completed and ready for occupancy early in 1967.

Log Cabin Ranch April 8, 1964

Junior Boys Ranch Perspective Drawing

PROPOSED BOND ISSUES

I. SAN FRANCISCO MEDICAL CENTER

As a result of an exhaustive study by the Health Department, the Medical Advisory Board, the Hospital Planning Committee, Norman Moore, Hospital Consultant, and the Bureau of Architecture, a proposal for a new Medical Center was developed and will be considered by the electorate in the Fall election of 1965. The estimate for the Medical Center, which will provide 780 new hospital beds, is $33,670,000.

II. WAR MEMORIAL CENTER

A study of the existing facilities at the Opera House and War Memorial was made due to the current interest in the performing arts, the opera, symphony concerts, ballet and repertoire theater. Facilities were found bad and inadequate and in dire need of basic maintenance and essential reconditioning. In addition, another finding was that a third building is needed in order to provide a complete and cultural complex. This building would serve as a rehearsal building and also provide essential stage storage. It could also provide a theater of ample size for the ballet and symphony. If this bond issue is approved by the Board of Supervisors, the proposal will be placed before the voters in the November 1965 election.

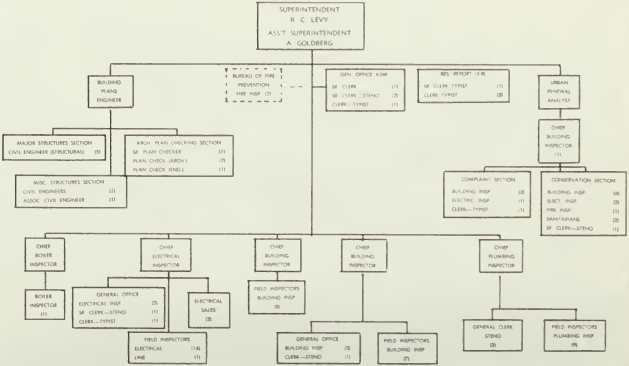
III. OTHER BOND ISSUES

The bond issues for a new courts building and modernization of the City Hall, previously estimated at $22,150,000, and the bond issue proposal for the remodeling of the Public Library, were not to be considered further, pending a decision by the Board of Supervisors concerning City policy with regard to developments of the Civic Center.

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS

ORGANIZATION CHART
BUREAU OF BUILDING INSPECTION

FISCAL YEAR 1964 1965



BUREAU OF BUILDING INSPECTION

R. C. Levy, Superintendent

BUILDING BOOM CONTINUES IN SAN FRANCISCO

San Francisco is now entering its fourth consecutive year of a large amount of building construction with an annual dollar volume exceeding $185,000,000 of permit work. Although in the last few years the building construction emphasis was on high-rise apartment buildings, presently the emphasis seems to be on high-rise office buildings, additions to colleges and medical facilities, and similar non-residential construction.

The tallest building in San Francisco now under construction is the Wells-Fargo forty-three (43) story office building. In addition, a unique high-rise structure consisting of the lower portion devoted to office use with the upper stories to be used as apartments, the total height of the building to be thirty-one (31) stories.

An office building in the Golden Gateway for the Alcoa Company, which will be a twenty-two (22) story structure, incorporates a unique framing system for the exterior, and is now under construction. The exterior framing consists of a series of two-story diagonal braces with the intermediate floor supported by vertical hangers from the intersections of the cross. This design has been discussed in the national engineering periodicals.

Also we expect the Japanese Cultural Center, consisting of an office building, hotel, Japanese theater, and an authentic Pagoda over 100 ft. in height, to be under construction during the next fiscal year. Permits for part of the complex have already been secured and the remainder are being plan-checked.

In order to handle the large amount of complex plan checking required to process the permits for these types of structures, the Bureau has obtained two additional structural engineers and one additional architectural plan checker so that the permit delays can be lessened.

We anticipate for the coming year a dollar volume of approximately $190,000,000. In addition a substantial but as yet unknown amount of construction work should be generated with the initiation of the Bay Area Rapid Transit construction on Market Street and Mission Street, which is expected to start in the latter part of 1965. There probably will be underpinning of several of the major buildings and alteration of the basement areas of many to accommodate the BARTD construction work. We also expect Rapid Transit to generate a substantial amount of construction along its route by the demolition of older, non-efficient buildings. We should see the beginnings of this new construction toward the end of the next fiscal year.

ARTHUR D. LITTLE COMPANY REPORT
CONSOLIDATION OF INSPECTION SERVICES

As indicated in the report last year, the Community Renewal Program study prepared by the Arthur D. Little Company, Consultants to the City, recommended consolidation of the inspection services in order to increase efficiency, present a more economical service, and eliminate possible harrassment of the public by multiple inspections and at times, conflicting requirements for the same building. Other than the Bureau of Building Inspection, the main departments that are involved are the Fire Department and the Department of Public Health.

The Consultant's report with regard to these consolidations was finally released and the basic recommendation is to establish a new

Department of Building and Conservation. This new department would, after passage of the necessary legislation and charter amendment, incorporate most inspection services of the Fire Department, Department of Public Health, and the Bureau of Building Inspection relating to building and housing.

Citizens groups, as well as professional and industrial organizations, have taken positions supporting in general the recommendations; however, they generally have, together with the Department of Public Works, opposed the creation of a new department and have suggested that the consolidation, at least as a first step, be effected within the framework of the present Bureau of Building Inspection, and only after it is then found necessary should the additional expenses attendant to the establishment of a new department be undertaken. It has been estimated that to provide the same degree of service with a new department as compared to consolidation within the existing Bureau of Building Inspection would cost $65,000 per year additional in addition to a non-recurring cost of approximately $8,500.

An ordinance to create the new department was presented by one of the Supervisors and the matter will be heard possibly in the summer of 1965 by one of the Committees of the Board of Supervisors.

That the consolidation of inspection services is of utmost importance appears not to be a question in anyone's mind, but rather the method of implementation of the consolidation appears to be the only area of discussion. In the meantime the Bureau of Building Inspection has taken the necessary steps that can be undertaken to improve its operations and has, by agreements with other departments, managed to somewhat simplify the procedures. For example, alteration permits with no zoning significance, as determined by our inspectors, no longer are routed to the Department of City Planning. The Department of Public Health does not check apartment house or hotel permits unless there is a Health Department action pending against the building. We have had discussions with the Bureau of Engineering regarding elimination of referral of certain types of work to their Bureau. Due to the large permit load, however, we have not yet been able to pursue that phase further. We expect, however, to consolidate this phase during the first part of the next fiscal year.

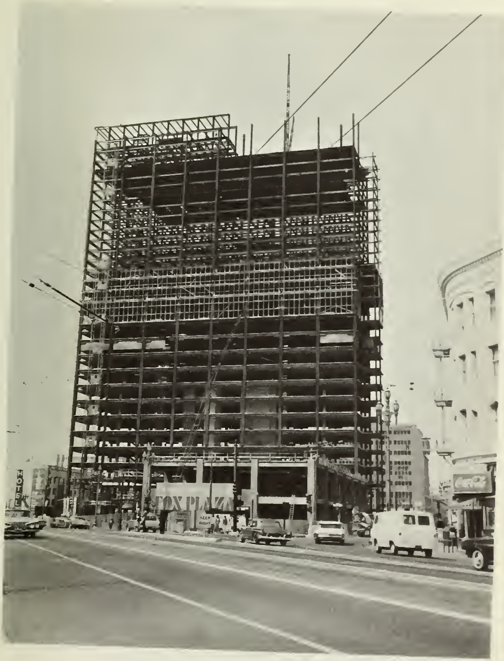
BUILDING CODE

A second series of amendments to the San Francisco Building Code was passed in August 1964. The original code was completely rewritten in 1965 and substantially amended in 1962. Provisions relating to interior finishes and plastics were to be reviewed for inclusion into the code in 1964. These were withdrawn by this Bureau due to studies still underway at the time the Board of Supervisors was to consider the second series of code amendments.

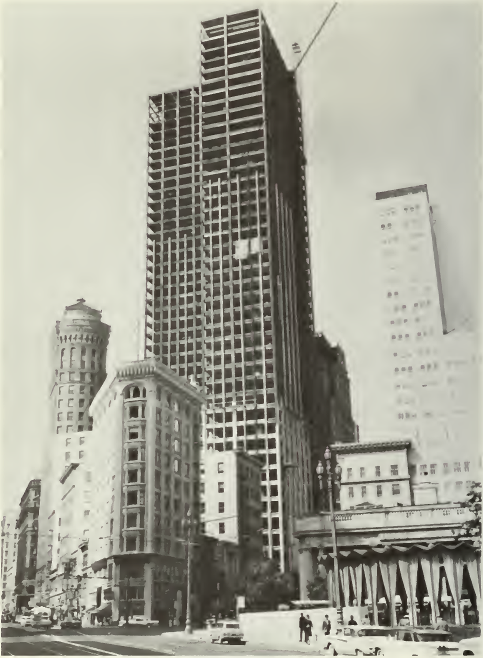
The interior finish and plastics amendments were again transmitted to the Board on May 28, 1965, and these included the regulation of smoke generation by specific numerical values based upon the ASTM Standard E-84 Tunnel Test. This is the first inclusion of specific smoke regulations in the building code of any major city in the United States. It is expected that hearings will be held by the Board of Supervisors in early July, 1965, and the proposals have the endorsement of professional groups as well as the Society of the Plastics Industry.

Hearings with regard the inclusion of fire retardant wood were held in 1964, in April 1965, and again in June 1965 by the Board of Supervisors Committee, and the matter is still unresolved. The position of the Bureau of Building Inspection has been against the inclusion of fire retardant wood for one-hour partitions in Types 1 and 2 buildings due to the increased fuel loading in the major buildings. A similar change has been before the Los Angeles City Council for several years and no decision has yet been rendered there due to the bitter controversy regarding its validity.

As part of the changes made in August, 1964, were changes intended to emphasize as well as expand the area of special inspections for



Fox Plaza
9th and Market



Wells Fargo Bank
Sutter and Montgomery

types of construction requiring close supervision and for which the inspection by the Bureau could not be adequate. Among these classes of inspection are welding, where design stresses exceed 50% of the allowable, pile driving, "plastic" type fireproofing including plastering and spray-on fireproofing, prestress concrete, high strength concrete, reinforced masonry, etc. Some of the problems attendant to these special inspection requirements are the method of acceptance of testing agencies which have the facilities and the experienced personnel to carry out the inspection. Further problems relate to the type and contents of the reports from the inspection agency, or from the architect or engineer who may take upon himself the inspection, and the qualification of an inspector for the agency making the inspection.

The Bureau is presently investigating the basic requirements for these areas and will shortly release its requirements so that uniformity of inspection for these critical areas can be provided and the method for accepting laboratories set forth so as to provide specific requirements for any new testing agency who wishes to be accepted by the Bureau.

ELECTRICAL CODE REVISION

For the past several years a request has been included in the Bureau budget for the employment of an electrical engineer in order to prepare a new electrical code for the City. The Electrical Code has required change, and the use of the present code has presented a problem with regard enforcement since it has required many interpretations in order to keep it correct. The electrical industry offered to employ a consultant electrical engineer for the preparation of the code at its own expense, and since the item was deleted by the Board of Supervisors from the 1964-65 budget this offer was accepted by the City. Accordingly, an "Advisory Committee for the Revision of The San Francisco Electrical Code" was formed and meetings held in order to develop this new code. The Committee consists of the consultant, members of the contractors' organi-

John F. Kennedy Towers
Sacramento and Fillmore

College of Dentistry
Sacramento and Webster

zations, electrical union representatives and of the electrical utility company, and representatives from the Bureau of Building Inspection participate in these meetings.

The format of the code has been developed, based upon the National Electrical Code, using the sections, numbers, and provisions thereof, and only amending those sections which it is felt require change due to the particular problems of a high-density city. Also, the pertinent portions of the State Code will be included so the code will be able, in general, to be the single reference for use in San Fracisco. In addition, a considerable Administrative Section must be added in order to provide regulations that would parallel those of the other codes administered by the Bureau.

Upon completion of the initial draft of the code, it will be transmitted to the groups interested or affected by the proposed code. It is anticipated that the code revision procedure would encompass two or possibly three series of revisions in order to reach a satisfactory and acceptable draft which can be submitted after approval by the groups involved to the Board of Supervisors. It is further expected that the Chamber of Commerce will act as the coordinating group for industry in a like manner as to the Building Code and the Housing Code. The tentative schedule of transmittal of the code to Industry will be 1966.

APPROVED MATERIALS LISTING

Under the Building Code, as well as other codes administered by the Bureau of Building Inspection, the approval of materials is a key factor in keeping the code up-to-date. Under the provisions of the code, performance is generally the basis of approval of new methods or materials of construction. The industry is constantly improving its products and developing new ones, and in addition the desire of industry to keep up with its competition also adds more products to the building field.

All of this gives rise to a large number of approval requests which are acted upon each year. This has required the preparation of approved material listings, due to the fact that between 150 and 200 approvals are reviewed or approved each year, primarily for the use of the building inspectors and the plan checkers so that they would be aware of the new materials in the event plans are submitted indicating same.

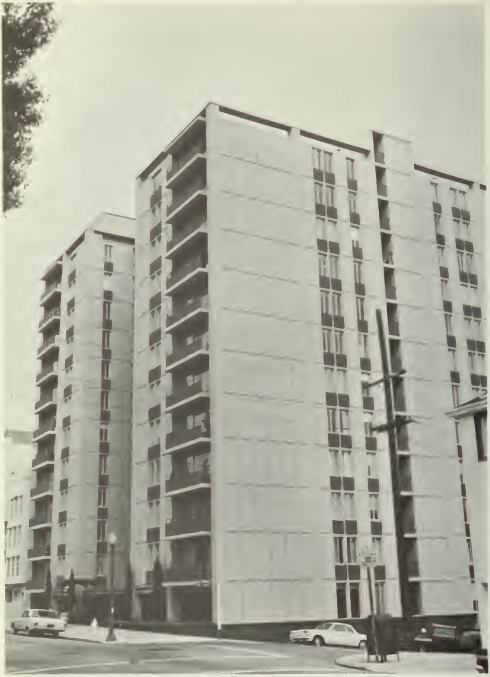
Listings are also forwarded to the American Institute of Architects, the Structural Engineers Association, and the Daily Pacific Builder, which publication has published all approved materials lists for the information of its readers as a service to the construction industry. However, the extremely large mass of approved materials has become unwieldy for the inspector to handle or refer to since there is no ready means of reference to a special class of work or manufacturer.

Rather than continuously reprint and redistribute this material, in order to place it in proper categories another method of listing was found to be a necessity. In addition it has been found desirable to make available to architects and engineers, as well as the manufacturers of the materials, those approvals which have been granted by the Bureau in a concise, readily usable form.

In the summer of 1964, therefore, a pilot set of approved materials cards was prepared incorporating all the approvals that had previously been granted by the Bureau and so coded to provide for access either by manufacturer or class of approved material. This pilot set is kept up-to-date by adding to it all approvals that have been granted within the last year.

The Bureau investigated the possibility of having the material published and sold at a reasonable fee by the Daily Pacific Builder; however it was found that, after months of study of the matter, the Builder could not at the present time handle such work. The matter is presently being studied by the American Institute of Architects to determine whether they might be in a position to

Fontana East
Polk and North Point



2200 Pacific

take upon themselves this service. It is our intent, however, that in the event this method of publication is not found feasible, to pursue the matter by having the City prepare and sell this listing to the construction industry. Probably supplements will have to be prepared and distributed on a bi-monthly basis. It is intended, if done by the City, that it be a self-supporting function.

BOARD OF EXAMINERS

When materials or methods of construction are denied by the Superintendent, or when a specific variance is requested not involving safety, the matter may be referred to the Board of Examiners. This Board consists of five professional men in the field of construction and represent architects, engineers, and members of the contracting industry.

The Board conducts open hearings, taking testimony from proponents, opponents, the Fire Department, and the Bureau of Building Inspection. The continued high level of conduct of hearings and equitable decisions has resulted in the Board of Examiners being recognized by the professions as serving the best interests of San Francisco and yet maintaining the protection of the public required by the Buiding Code.

In addition, the Board of Examiners' actions has, through its review of the problems of smoke as generated by combustible materials, resulted in a proposed amendment to the Building Code, which represents the first regulation of this matter in the Country for a major city, and this in turn has generated a considerable impetus to further investigation into the burning process and the materials involved.

The contribution of the members of the Board of their time and energy to provide a forum for equitable and professional resolution of problems has reflected to the credit of the City.

BOARD OF PERMIT APPEALS

The number of cases that come before the Board of Permit Appeals, a lay appellate body of the City, continues to be very large. This is one of three appellate boards available to the citizen, the others being the Board of Examiners, which is a technical review body, and another lay body in the field of housing, namely the Housing Appelas Board.

As in previous years the main denial of permits of the Bureau that were heard by the Board of Permit Appeals involved fire safety and in the majority of cases the Board overruled the requirements of the Bureau. In our opinion, this has resulted in an elimination or lessening of the fire safety requirements, and we continue to be quite concerned over this continuing reduction in safety.

STATE LEGISLATIVE ACTIVITIES

1965 was an active legislative year in California as the Legislature met in its biennial legislative session. Literally thousands of bills were presented and those affecting the building industry numbered in the hundreds. These bills generally fall into two categories, namely those which would extend the preemption of enforcement exemption by the State for certain classes of occupancies so that local agencies could not enforce a higher standard if it was felt necessary in that jurisdiction, and secondly regulations which would require excessively high standards to be enforced by the building official.

In this latter category such requirements as the requirement of painting by permit was proposed and passed in 1963, and a proposed deletion of this requirement was defeated in the 1965 legislature but was sent to an Assembly Interim Committee for study in depth. These regulations are still under study so as to provide regulations which would not require impossible inspection procedures or standards with which the building officials would have to comply.

Also in this latter type of legislation are those relating to requirements for soil investigations for each parcel of land to be built upon, a proposal to require that all buildings be constructed of incombustible or fire retardant materials with no exceptions, and regulations requiring that all glass doors, walls, and windows be regulated regardless of the location. The first two of these legislative bills were successfully amended after concerted efforts were made by the building officials and other interested parties in the State.

The activities in the legislative field are extremely time consuming. The building officials in California organized, within the International Conference of Building Officials, a California Chapter specifically to deal with legislation in the building field. The Superintendent, for the year 1965, is President of this Chapter and therefore fully aware of all the problems attendant with State legislation.

The Superintendent or the Assistant Superintendent appears at State meetings other than legislative sessions, which are handled by the Mayor's office, held in San Francisco or Sacramento, whenever they relate to the building field. San Francisco's stated policy of local sovereignty is constantly being challenged on the State level as witnessed the State preemption tendency and the vast number of regulations constantly being proposed in the building field at the State level.

UNDERWRITERS' LABORATORIES FIRE COUNCIL AND OTHER RELATED NATIONAL ACTIVITIES

The Superintendent has been a member of the Underwriters' Laboratories Fire Council for several years and was appointed to the Fire Test Committee E-5, ASTM, in 1963. As a result of this familiarity with fire testing and the Bureau's activities with regard smoke and with fire resistive materials, the Superintendent was asked to present a paper at the National Fire Protection Association meeting in October 1964. This paper was later published in the May 1965 publication of that organization and was well received.

The Bureau activities in these organizations are necessary in order to provide a basis for cooperation with the National groups to improve standards of testing which would thereby enable manufacturers to have their new material tests more readily acceptable in this City and elsewhere. It is a costly procedure, both for the manufacturer and for the City, to have to proceed to appeals to groups as the Board of Examiners when tests are found to be either inadequate or inappropriate for the requested use.

The results of the efforts of the Bureau in these National activities have begun to be fruitful. It is hoped that further progress will be made in this regard to the betterment of both the City and the industries involved.

ICBO ACTIVITIES

The Bureau has a Class A membership in the International Conference of Building Officials and attends meetings in the Central District thereof and the Peninsula Chapter. The Superintendent, as has been indicated, is also the President of the California Chapter which deals with legislative affairs affecting the building industry.

The ICBO prepares the Uniform Building Code and this Bureau is active in the review of changes proposed for that code so that we are up-to-date with what is proposed, and where these changes are found favorable for inclusion in the San Francisco Building Code, these form part of the revisions of the San Francisco code. The Uniform Building Code is used as a basis for State regulations in certain fields, and the City codes must be equal to or more restrictive than the State regulations. Hence it is of vital importance that we insure that improper or highly restrictive legislation is not placed into the Uniform Building Code. In this manner we can assist the ICBO and also be kept current with the lastest data and methods of solving code problems.

The San Francisco Building Code is similar in many respects to the Uniform Building Code except that due to the high density population in the City and the number of high-rise office and multi-family structures within the city we require more specific requirements for the protection of life and property. The City is, therefore, best served by a code specifically designed for the environment of San Francisco.

STATISTICAL SUMMARY

BUILDING INSPECTION DIVISION

Type of Construction	1963-64 No. of Permits	1964-65 No. of Permits	1963-64 Estimated Cost	1964-65 Estimated Cost
Types 1A & 1B	18	37	49,430,076	60,913,961
" 2	1	3	127,000	2,118,300
" 3	35	34	3,513,210	6,482,360
" 4	37	30	1,751,481	941,385
" 5	919	808	89,313,096	46,743,481
Alterations	13825	12595	44,863,320	55,210,411
	14835	13507	188,998,983	172,409,898

Type 1A - Steel Frame with reinforced concrete walls and floors. Fire-resistive construction.

Type 1B - Built entirely of reinforced concrete. Fire-resistive construction.

Type 2 - Similar to Type 1, but with limitations.

Type 3 - Wood frame floors with exterior walls of masonry. Ordinary masonry construction.

Type 4 - Light incombustible frame construction.

Type 5 - Wood Frame construction.

BUREAU OF BUILDING INSPECTION

BUREAU STATISTICS FOR FISCAL YEAR	1963-64	1964-65
Inspections reported by building inspectors	51,644	50,844
Projects remaining on which permits have been issued that have not been reported completed by building inspectors	6,163	5,701
Complaints reported that have been adjusted by building inspectors	2,564	2,364
Inspections reported by boiler inspectors	1,842	1,784
Complaints received and adjusted - Boiler and air tanks	216	396
Complaints and requests for information recorded	219	217
Applications for permits examined and approved by Plan Checking Division	Total not reported	2,445 - Bldg's 1,238 - Signs
Miles traveled during the year by vehicles on inspection service	327,546	325,452
Report of Residential Records issued (3R)	7,050	7,197
Waivers of 3R reports received	1,469	1,042

ELECTRICAL INSPECTION DIVISION

	1963-64	1964-65
Permits Issued, wiring and signs	15,150	15,768
Inspections Made	45,047	44,693
Complaints Investigated (Found Defective)	3,943	4,006
Installations In Progress as of June 30, 1965	5,345	5,371
Installations Completed	15,261	15,654
Pinball Machine Inspections	411	440
Juke Box Inspections	35	32
Inspections for Nursing & Bording Homes for ambulatory patients	162	168
Night Club Inspections	121	108
Spray booth Inspections	22	32
Specials (Garages, Laundries, Parking lots, etc.)	(Not Reported)	240

PLUMBING INSPECTION DIVISION

	1963-64	1964=65
Plumbing Permits Issued	4,504	4,625
Sewer Repair or Replacement Permits	260	309
Plumbing Installation Removals	11	9
Water Permits Combined with Plumbing	3,334	3,285
Water Permits Issued	1,384	1,334
Gas Piping and Appliance Permits	14,505	14,460
Gas Permits on Plumbing	5,375	5,495
Gas Installation Removals	7	4
Plumbing Inspections Made	15,854	15,988
Water Inspections Made	3,881	4,680
Water Installation Removals	11	9
Plumbing Complaints Investigated	896	861
Condemnation Reports	29	40
Gas Piping Complaints Investigated	9	11
Gas Appliance Complaints Investigated	123	110
Plumbing Installations Completed	5,230	5,344
Gas Lines Inspected Final	4,742	4,712
Gas Appliances Approved	11,187	10,662
Installations uncovered that were without permit and against which penalties were assessed	68	66

Urban Renewal Program Conservation Activities

During the past year three conservation areas in Pacific Heights have been de-designated by the Chief Administrative Officer and returned to normal enforcement by district inspectors. During the five year period the conservation program was in progress in these three areas, property owners made approximately $2.8 million in improvements, 55% of which was estimated to be for work above code requirements.

One new conservation area was designated in May, 1965, and is known as Buena Vista Heights. A public meeting to explain the program to the property owners was jointly sponsored by this Bureau and the neighborhood improvement association and was attended by about 200 persons. The people who attended were quite interested, and the meeting proved to be an excellent forum for the exchange of information. We believe it will aid us considerably in our enforcement program in that the property owners now have a better understanding of the procedures used and the goals of the program. It is anticipated that the remaining two conservation areas in Pacific Heights will be de-designated during the next fiscal year and an additional new conservation area will be designated in early 1966.

Before a conservation area is de-designated, at least 85% of the buildings must be in compliance and the remaining buildings working toward compliance or referred to the City Attorney for further legal action. One inspector is assigned to follow up on the remaining buildings in non-compliance in the former Pacific Heights Conservation Areas.

PUBLIC RESPONSE

Three neighborhood organizations have invited representatives of this Bureau and the Department of City Planning to their meetings to explain the conservation program and have subsequently requested the Director of Planning to consider their areas for possible designation as conservation areas.

Cooperation by property owners has been excellent. There have been no court cases and only a few hearings by the District Attorney have been required for the purpose of gaining entry. In no case have we had to go to court to obtain entry. Improvements to properties have been extensive and can be measured by the large increase in permits issued for alterations after the conservation program began as compared to the prior five year period. This is only a partial indication since many improvements such as painting do not require a permit.

Alteration permits issued in all areas totaled $1.8 million during the last year for a total of $6.3 million since the Fall of 1959.

Beginning in July, 1965, a new report form will be used for the inspection of one- and two-family dwellings in order to reduce the lapse of time between the inspection and receipt of the report by the property owner. This report will be filled out by the inspector either at the site or in the office that day and its use should also reduce the clerical time needed to process the report.

RELOCATION SERVICE

Families displaced by city enforcement activity action are referred to the Central Family Relocation Service operated by the Redevelopment Agency. Efforts are made by that agency to find standard housing at rents they are able to afford. Most displaced persons who have difficulty in rehousing themselves are elderly single people, many of them receiving limited income in the form of Social Security or Welfare payments.

THE COMPLAINT PROGRAM

During the past year complaints were investigated throughout the city concerning residential, commercial and industrial buildings. These complaints were received from the district building, fire and health inspectors and the general public. This program has suffered somewhat because one of the three complaint inspectors has been assigned to perform work for the Redevelopment Agency since January. Civil Service has no list for building inspectors at this time and experience with hiring temporary inspectors for short periods of time has not been satisfactory. It is expected that when permanent Civil Service lists are established this problem will be eliminated. Inspection reports are also prepared at the request of the Health Department for their Condemnation Hearings for apartment houses and hotels; for owners of residential buildings requesting physical inspections and Reports of Residential Building Record; and, for owner-participants in Redevelopment Projects.

HOUSING APPEALS BOARD

The Housing Appeals Board heard nearly twice the number of appeals this year as compared to the previous year. This increase has been largely due to bringing long standing cases to conclusion in the conservation program.

BEFORE

The goal of the
Conservation Program
is to restore buildings
to Code Standard and
improve the value of the
property and the appearance
of the neighborhood.

Suggested improvements often
result in work done above code
requirements.

AFTER

BEFORE

AFTER

The Complaint Inspection Program can have dramatic results through renovation or replacement of condemned buildings that have become obsolescent or have deteriorated due to lack of maintenance.

BEFORE

AFTER

CONSERVATION PROGRAM

Area	Date Designated	Total Bldgs.	Bldgs. Inspected	Viol. Detected	Bldgs. Brought Into Code Compliance*	Val. of Permits Issued to Date**
Pac. Hgts	Nov. 1959					
(Areas 1-5)	Apr. 1961	1839	1801	1513	1109	3,408,850
Vis. Valley	Oct. 1960	2140	1938	1449	1145	205,789
Glen Park	Nov. 1962	1214	349	269	190	214,368
WNH	Nov. 1962	949	459	405	253	1,327,978
Great Hiway	Nov. 1962	1255	185	131	96	171,360
BVH	May, 1965	416	0	0	0	1,000
Total Bldgs.		7826	4734	3543	2793	6,305,841
Total Dwelling Units		17,900(est)	14,500(est)	13,133	7942	

* Including Permit and Non-permit Code Violations

**Does not include Bldgs. found in compliance at time of inspection.

COMPLAINT PROGRAM

Referred By	Active Cases	Rec'd	Closed
DPW	329	111	161
DPH	226	39	30
Hearings Attended			
City Attorney	20		
District Attorney	9		
Court	46		
DPH	10		

ORGANIZATIONAL RELATIONSHIPS
MAINTENANCE, REPAIR & OPERATION
1964 - 1965

DIRECTOR
S. Myron Tatarian

Assistant Director for Maintenance & Operation
Arvid H. Ekenberg

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT
W. B. Jones, Superintendent

FUNCTIONS
1 - Maintain and Repair Sewerage System.
2 - Operate and Maintain 15 Sewage Pump Stations.
3 - Operate and Maintain 3 Sewage Treatment Plants
4 - Control Industrial Waste Discharge to Sewers.
5 - Conduct Air and Water Pollution Surveys.
6 - Provide Advisory Service to other City Department on Sewage Treatment.

PERSONNEL ALLOWANCE

(a) Budgeted	223
(b) Non-Budgeted	20
(c) Assigned from other Bureaus and Departments	10
(d) Contract Employees on Hired Trucks	5
TOTAL	258

TOTAL EXPENDITURE

Budgeted by Bureau	$2,819,487

BUREAU OF STREET REPAIR
C. F. McFadden, Superintendent

FUNCTIONS
1 - Maintain and Repair Public Streets.
2 - Operate and Maintain 3 Lift Bridges.
3 - Operate and Maintain Asphalt Plant.
4 - Operate Granite Curb Yard.
5 - Operate and Maintain Broadway Tunnel.
6 - Operate and Maintain Underpasses and Overcrossings.
7 - Maintain and Repair Certain Street Structures.
8 - Perform Work for Other Bureaus and Departments by Work Order.

PERSONNEL ALLOWANCE

(a) Budgeted	173
(b) Assigned from Other Bureaus	1
(c) Contract Employee on Hired Truck	1
TOTAL	175

TOTAL EXPENDITURE

Budgeted by Bureau	$2,166,720

BUREAU OF BUILDING REPAIR
J. S. Rutherford, Superintendent

FUNCTIONS
1 - Maintain and Repair Certain Public Buildings.
2 - Provide Maintenance and Repair Services and Personnel on an Interdepartmental Basis to other City Agencies.
3 - Provide Operating and Custodial Personnel in Certain Public Buildings.
4 - Conduct Engineering-Architectural Surveys and Prepare Reports on Certain Public Buildings.
5 - Paint Street Traffic Striping and Markings on Work Order Basis.
6 - Repair Certain Street Structures and Sidewalks Fronting on City Property.
7 - Maintain Street-Name Signs on Work Order Procedure.

PERSONNEL ALLOWANCE

(a) Budgeted by Bureau	387
(b) Assigned from Other Bureaus	2
TOTAL	389

TOTAL EXPENDITURE

Budgeted by Bureau	$3,221,438
Funds from Other Sources	$1,321,663
	$4,543,101

BUREAU OF STREET CLEANING AND PLANTING
B. M. Crotty, Superintendent

FUNCTIONS
1 - Clean Public Street Surfaces.
2 - Clean 11 Pedestrian and Vehicular Underground Structures.
3 - Clean 215 Pedestrian Stairways.
4 - Control Weeds on Numerous Public Lands and Properties.
5 - Operate 19th Avenue Garage and Office, Sunset Boulevard Office Storeroom and Shop and Nursery at the Southeast Sewage Treatment Plant.
6 - Maintain 240 Acres of Landscaping and 7600 Street Trees.
7 - Promote and Coordinate Litter Control Programs and Tree Planting Programs Independently and in Cooperation with Various Civic Groups and Committees.
8 - Provide Technical Assistance to Engineers, Architects and Builders in Landscaping and Tree Planting.
9 - Operate Department of Public Works Radio KME 327.
10 - Maintenance of 7 Neighborhood Off Street Parking Lots; Cleaning, Landscaping and Repair.
walks.

PERSONNEL ALLOWANCE

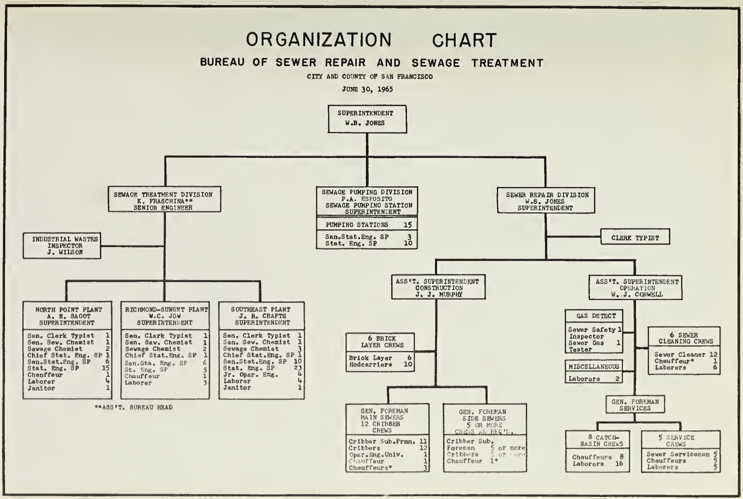
(a) Budgeted by Bureau	376
(b) Assigned from Other Bureaus	3
TOTAL	379

TOTAL EXPENDITURE

Budgeted by Bureau	$3,089,598

SUMMARY

Total Personnel Allowance	1,201
Total Expenditures, less reimbursements	$12,618,906



ORGANIZATION CHART

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1965

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT

W. B. Jones, Superintendent

The Bureau of Sewer Repair and Sewage Treatment is responsible for the maintenance and operation of the City's sewerage system including main sewers and interceptors, pumping stations, treatment plants and outfalls. It is divided into 3 divisions: Sewer Repair, Sewage and Waste Treatment, and Sewage Pumping. The Sewer Repair Division maintains and repairs public sewers and appurtenant structures and services mosquito complaints originating in drainage catchbasins. The Sewage and Waste Treatment Division operates and maintains 3 primary sewage treatment plants, conducts sanitary surveys on shore waters, regulates and controls industrial wastes discharges to sewers and advises other City departments on the maintenance and operations of their sewage treatment facilities. The Sewage Pumping Division operates and maintains 15 sewage pumping stations.

Sewer Cleaning Job Showing Safety Requirements Being Met.

Boat for Sampling Bay Waters in Pollution Studies.

New Sand and Screening Bin at the Southeast Plant.

The only change during the year in the number of personnel was the addition of one Sewage Treatment Chemist at the Richmond-Sunset Plant. This additional employment was made necessary to satisfy the requirements of the self monitoring program imposed upon the City by the State Regional Water Pollution Control Board for the shore waters contiguous to the Richmond-Sunset District. Thus at the end of the fiscal year the personnel in the Sewage and Waste Treatment Division was 101 while there were 14 in the Sewage Pumping Division and 108 in the Sewer Repair Division. Thus the total budgeted employees for the Bureau was 223. These employments were supplemented by one clerk-typist for Sewer Repair and 9 maintenance personnel for Sewage Treatment, all assigned from other bureaus and departments, and 5 chauffeurs hired with their trucks on a contractual basis by Sewer Repair. In addition, the Sewer Repair Division has a varying number of non-budgeted employments (20 are authorized) who perform new construction and repairs in connection with side sewers and who are paid by assessments against affected property owners. Thus there are a maximum of 258 employments under the control of the Bureau. Actually, there are normally from 6 to 10 less than this because of varying side sewer employments which depend upon activity in the building industry.

The accompanying chart shows the organization of the Bureau by major functions and personnel.

On occasions during the year it became necessary to have emergencies declared to enable the Bureau to cope with some malfunction in the sewerage system. These are usually made necessary when it appears that the correction of the malfunction will cost more than the $2,000 Charter limitation and the urgency of the problem does not allow time for it to be handled by contract procedures. Also, it is usually impossible to estimate the extent of the work until the job is well under way. The passage in November 1964 of the Charter Amendment permitting the increase of the limitation to $5,000 should eliminate the necessity for the declaration of many such emergencies in the future.

Of the 12 emergencies the following would seem to be worthy of comment: On November 25, 1964 the cleaning ball got stuck in the cross town sludge line between the North Point and Southeast Plants. The next day the line ruptured just outside the building at the North Point Plant under the high pressure which was being used in an attempt to force the ball on through the line. The line was not back in full service again until December 31 due to extreme difficulty in first locating the stoppage and then effecting a repair. The break at the North Point Plant end was repaired immediately and we were able to put the line into partial service by opening a blow off line at Army Street and diverting the sludge to a main sewer tributary to the Southeast Plant. This eliminated the necessity of diverting raw sludge to the Bay at the foot of Bay Street but may have brought about some decrease in the operating efficiency of the Southeast Plant. The cause of original stoppage of the cleaning ball is still not known but the following theory might explain it. A partial breakage of the line at the North Point Plant may have existed for a long time allowing the escape of part of the flow and reducing the effective pressure on the ball. Once the ball had stopped and a sand plug had formed ahead of it, no amount of pressure could get it started again after the repair of the line at the North Point Plant. Since the repair of the line, there has been no difficulty experienced in putting the cleaning ball through the line.

Industrial Wastes Problems. The Tehama and Fourth Street sewers were seriously affected by grease carelessly discharged by a meat packing plant. This necessitated the expenditure of about $16,000 in man power for cleaning the sewers. In this case since the source of the grease is known attempts are being made to recover damages for the City. Another source of considerable annoyance was construction lumber which finds its way into the sewer the source of which is difficult to pin point. This has been particularly bad at the new Drumm Street pump station and at the drop out structure at North Point and Laguna. This latter location is especially bad because the structure becomes clogged causing a sewage overflow at the Laguna Street Outfall placing the City in an embarassing position with the Water Pollution Control Board.

The many new storm outfall structures have become an annoyance to the Bureau because the tide gates frequently do not close properly after storms. Thus it becomes necessary after every rain shower to inspect and clean all such gates. Failure to do this allows large quantities of salt water to enter the system at high tide. This salt water must be pumped in most cases twice, and has a deleterious effect on the treatment process.

New Grit Removal Tanks at the Southeast Plant.

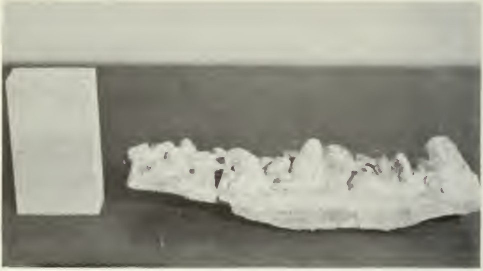
On March 17, 1965 a cave-in occurred in Golden Gate Park just off Fulton Street. This cave-in was caused by a collapse of the crown of the 42 inch concrete intercepting sewer which carries the Richmond District flow from 46th Avenue to the Richmond-Sunset Plant. The collapse was obviously the result of sulfide corrosion of the 4 inch concrete wall of the sewer which had in places been reduced to practically zero thickness. All reinforcing steel had been corroded away. At the present writing the correction of the problem is under study by the Bureau of Engineering.

Another problem developed during the year when in searching for the cause of an unexplained overflow of raw sewage at the Lake Merced Pumping Station, it was discovered that the Water Department had instituted a program of flushing water mains according to requirements of the State Health Department. This water main flushing put a sudden overload on the sewer system. As a result of this incident a program of cooperation has been instituted between this Bureau and the Water Department by which it is hoped that such incidents can be eliminated or at least minimized in the future.

The 3-week shut down of the cable car system commencing March 21, 1965 gave this Bureau an opportunity to clean the main sewer in lower California Street. This sewer had not been cleaned for many years due to the near impossibility of getting to it with equipment while the cable cars are running.

The budget expenditures for the fiscal year totaled $2,689,409 of which $1,352,380 was for treatment plants and industrial wastes control, $173,719 was for the pumping stations and $1,163,310 was for sewer maintenance and repair.

In addition, the Sewer Repair Division expended $218,161 for side sewers paid for by property owners and $1,686 on work orders from other departments. The Sewage Treatment Division performed work amounting to $3,829 for other departments.



Fragment Corroded Pipe Wall from 42-Inch Richmond Interceptor. The 4-Inch High Block Shows Original Pipe Thickness.

Side Sewer Excavation in Downtown Area Showing Difficulty from the Many Underground Structures Encountered.

	Sewage Treatment	Sewage Pumping	Sewer Repair
PERSONAL SERVICES			
Permanent Salaries *	$ 760,713	$ 115,374	$ 99,680
Overtime *	1,334	153	2,225
Holidays *	20,578	5,155	1,225
Temporary Salaries *	23,661	3,365	
Wages (Per Deim)	117,193		870,578
Sub-Total	923,479	124,047	973,708
CONTRACTUAL SERVICES			
Power and Gas **	109,689	35,090	
Plant Equipment	68,055	8,127	
Field Equipment	3,596	191	39,061
Sludge Disposal	33,958		
Landscape Maintenance	16,632		
Miscellaneous Services	980	1,064	11,471
Hired Trucks			54,410
Sub-Total	232,910	44,472	104,942
MATERIALS AND SUPPLIES			
Replacement Parts	40,158	1,279	1,114
Field	495		43,973
Plant	19,248	1,339	
Fuels and Lubricants	2,853	450	14,064
Treatment Chemicals	118,709		
Sub-Total	181,463	3,068	59,151
EQUIPMENT			
New	841	498	5,137
Replacement	13,687	1,634	20,372
Sub-Total	14,528	2,132	25,509
TOTAL	$1,352,380	173,719	$1,163,310

* For Monthly Employees

** In Public Utilities Commission Budget

SEWER REPAIR DIVISION

The Sewer Repair Division cleans, repairs, maintains and makes minor additions to the various components of the sewerage system including main sewers, side sewers and appurtenant structures. The Division also tests for explosive and other gasses which may be found in the sewer system and participates in mosquite abatement as related to catchbasins.

In order to organize the work, the personnel are divided into units or working groups consisting of sewer cleaning units, eductor units, service units, main pipe sewer units, bricklayer units, side sewer units, gas detection unit, material trucks, digging unit and compressor unit. While many of these groups frequently assist each other, the latter three may be considered almost entirely subsidiary in that their principal function is to assist other units in the performance of their work. A summary of the activities of these working units is to be found in the accompanying tabulation.

SEWER CLEANING

Sewer Cleaning units clean main sewers, pumps and tanks at pumping stations and treatment plants, do miscellaneous work in connection with sewers and handle complaints occasioned by storms when service crews cannot handle all calls.

Sewers are normally cleaned by buckets dragged between manholes. Other methods used are rodding of pipe sewers and manual cleaning of large sewers. Many miles of sewers are also cleaned by flushing rather than the more laborious methods.

There are 6 sewer cleaning units, each consisting of 2 sewer cleaners and one laborer equipped with a specially designed truck containing the necessary equipment such as hoses, hand tools, buckets, cable and power hoists.

Routine activities during the year were principally in the South of Market district. However, the grease problems in the Fisherman's Wharf area have continued to plague the Bureau and to reduce the manpower available for the routine work.

EDUCTOR OPERATIONS

An eductor unit consists of a truck mounted Elgin eductor with a gasoline powered pump and tank manned by a chauffeur and 2 laborers. Its principal function is the cleaning of catchbasins, but being a very versatile unit, it is put to many other uses where a source of water is needed or where pumping is required. There are normally 8 eductor units operating with 2 additional machines for standby. Service requirements for these units has increased to the point that there are at practically all times at least 2 in the shop awaiting repairs.

SERVICE UNITS

Service units service complaints from the public and other sources, wet down main and side sewer backfills, flush sluggish or temporarily clogged pipe sewers, establish the necessity for specialized work by other crews and do miscellaneous emergency work.

Each of the 5 crews consists of one sewer serviceman, one chauffeur and one laborer and uses a one-ton truck with a special utility body equipped with hoses, lights, barricades and other tools and equipment. Four of the crews are on regular day work and the fifth unit works evenings from 4 p.m. to midnight.

Service crews spent 48.3% of their time on service calls and 51.7% on other work. During the fiscal year a total of 24,439 calls were made, 5,781 on complaints and 18,658 on other work including mosquito abatement.

The following tabulation shows the breakdown of work done by type of work and number and percent of calls:

	Calls			
TYPE OF WORK	Number		Percent	
SIDE SEWER				
Relieved clogged sewer	2,846		11.7	
Found trouble inside property	1,032		4.2	
Wet down backfill	149		0.6	
Determine if side sewer exists	670		2.7	
Found side sewer broken	218	4915	0.9	20.1
MAIN SEWER				
Found main sewer broken	392		1.6	
Relieved clogged main sewer	478		2.0	
Examine condition	1,327		5.4	
Wet down backfill	154	2351	0.6	9.6
CATCHBASINS AND MANHOLES				
Remove obstruction	447		1.8	
Replace cover	207		0.9	
Silence noisy cover	172		0.7	
Examine condition	509	1335	2.1	5.5
MISCELLANEOUS				
Service lights and barricades	313		1.3	
Investigate seepage and leaks	260		1.1	
Clean at pump station	205		0.8	
Deliver material to job	44		0.2	
Remove deposits on sidewalk			0.0	
Mosquitoes	14,912		61.0	
Not classified	92	15,838	0.4	64.8
TOTAL		24,439		100.0

MAIN PIPE SEWERS

Cribbing crews excavate, lag and backfill main sewer trenches, lay pipe in the 6- and 8-inch sizes, excavate, lag and backfill for structure repairs, cut pavement and do miscellaneous work. When conditions are right these crews frequently are assisted by the digging unit. There are normally 11 cribbing crews each consisting of a cribber and a cribber subforeman although this arrangement is subject to some variation to suit conditions. One of the crews is assigned to the compressor unit and thus spends most of its time cutting pavement for the other crews.

BRICKLAYER WORK

Bricklayer crews repair main brick and concrete sewers, construct and repair manholes and catchbasins, lay sewer pipe and do miscellaneous brickwork when required.

There are two types of bricklayer crews, top crews and underground crews. A top crew consists of a bricklayer and a hodcarrier equipped with a 1-1/2 ton truck. Their functions are to repair catchbasins and manholes, lay pipe in trenches and do miscellaneous brickwork. An underground crew consists of a bricklayer and 2 hodcarriers equipped with a trailer mounted tool box. Their function is the repair of large brick and concrete sewers which can be worked on from inside.

SIDE SEWERS

Side sewer crews excavate, lag and backfill sewer trenches and lay sewer pipe. A cribber and a cribber sub-foreman normally constitute a crew and the number of crews varies with the demand for this type of work which is dependent upon activity in the building industry. Three of the crews are motorized and carry sufficient tools, equipment and materials to complete a job and move without delay. Non-motorized crews are equipped with trailer mounted tool boxes and must be moved by the hired trucks. Since side sewers belong to the fronting property owners, all side sewer construction and repair is at the property owner's expense. All such work is done by this Bureau except where side sewer construction is included with main sewer construction under public contract.

GAS DETECTION

The primary function of the gas detection unit is to conduct a continuing City-wide testing and inspection survey of the sewerage system and to supervise the use of gas detection equipment by underground workers. Tests for explosive and toxic gases are made at sewer manholes and at special locations such as pumping stations and sewage treatment plants. The gas most frequently detected is methane which usually results from leakage in gas mains and services.

The gas detection unit also assists actively in the maintenance of safety standards in connection with all work in the Sewer Repair Division.

The unit is also in charge of the photographing of the interior of sewers. During the year, 13,718 feet of main sewer were photographed. The photographs have proven invaluable in establishing the condition of sewers.

MATERIAL TRUCKS

Five trucks together with their drivers are hired on a contractual basis to assist in the work of the Division. These trucks haul materials and equipment to jobs, remove waste material to dumps and move non-motorized units from one location to another. One of these trucks is assigned the duty of visiting all jobs on Saturdays, Sundays and holidays and seeing that all lamps and barricades are in proper order.

DIGGING UNIT

This unit consists of a combination front-end loader and back-hoe which is manned by an operating engineer, universal. This unit assists in any excavation work where the danger of damage to other utilities is not excessive.

COMPRESSOR UNIT

The compressor unit consists of a truck mounted compressor together with its tools manned by one cribber, one cribber sub-foreman and a chauffeur. It is used to assist other groups, principally main sewer crews, in opening streets for excavation.

WORK AND COST DISTRIBUTION - SEWER REPAIR DIVISION

WORK UNIT		PER CENT		TOTALS				UNIT COST
1	SEWER CLEANING	92.4	CLEANING SEWERS	$132885		605311	LINEAL FEET CLEANED	.22
		7.6	OTHER WORK	10930	$143815			
2	EDUCTOR OPERATIONS	57.8	CLEANING CATCHBASINS	97979		13283	BASINS CLEANED	7.38
		42.2	OTHER WORK	71551	169530			
3	SERVICES	48.3	SERVICING COMPLAINTS	65289		5781	COMPLAINTS	11.29
		51.7	OTHER WORK	69780	135069			
4	MAIN PIPE SEWER REPAIRS	100.0	REPAIRING PIPE SEWERS	229118	229118	6943	LINEAL FEET AT 411 LOCATIONS	33.00
5	BRICKWORK	68.3	REPAIRING BRICK SEWERS	105076		17333	LINEAL FEET	6.06
		4.5	BUILDING CATCHBASINS	6972		8	CATCHBASINS BUILT	871.53
		7.3	BUILDING MANHOLES	11286		14	MANHOLES BUILT	806.12
		9.9	REPAIRING CATCHBASINS	15188		490	CATCHBASINS REPAIRED	31.00
		9.9	REPAIRING MANHOLES	15286		437	MANHOLES REPAIRED	34.98
		0.1	REPAIRING CONCRETE SEWERS	209	154017	44	LINEAL FEET	4.74
6	SIDE SEWER WORK		INSTALLATIONS	127559		315	INSTALLATIONS	405.94
			REPAIRS	53306		153	REPAIRS	348.40
			CONNECTIONS	3109	183974	35	CONNECTIONS	88.82
7	GAS DETECTION	21.9	TESTING MANHOLES	3037		2136	MANHOLES TESTED	1.42
		78.1	OTHER WORK	10850	13887			
8	WORK ORDERS				1686			
9	MISCELLANEOUS				46472			
	TOTAL NOT INCLUDING WORK UNIT 6				893594			
	WORK UNIT 6				183974			
	GRAND TOTAL				$1077568			

NOTE: THE COSTS TABULATED HERE DO NOT INCLUDE OVERHEAD OR OTHER INDIRECT CHARGES.

SEWAGE PUMPING STATIONS

GENERAL

The Sewage Pumping Division operates and maintains 14 sewage pumping stations which are divided into 3 Districts corresponding to the tributary districts of the North Point, Richmond-Sunset and Southeast Sewage Treatment plants. Their primary purpose is to prevent pollution of recreational beaches and shore waters by intercepting and lifting sanitary flow from low-lying areas of the City into main interceptors leading to the treatment plants.

These stations are generally designed and constructed for capacities sufficient to handle all sanitary sewage plus rainfall equivalent to 0.02 inch per hour. All stations, except Commercial Street are provided with overflow spillways so that rainstorm run-off beyond the capacity of the stations is discharged into the bay or ocean. In the Commercial Street Station, in addition to the electrically operated pumping equipment, a gasoline engine driven pump is provided to handle the added flow in heavy rainstorm and during any electric power failure.

All stations except 7 are unattended. Stationary Engineers are on duty from 8 a.m. to midnight at the Drumm Street and Marina Stations. At Fourth Street, Hunters Point, Lake Merced, Sea Cliff No. 2 and Yosemite Avenue stations, a stationary engineer is on duty from 8 a.m. to 4 p.m. These shifts are required to assure continued operation and to prevent flooding of basements in the downtown business area and pollution of recreational beaches and shore waters in the Yacht Harbor, Aquatic Park, Phelan Beach, China, India, and South Basins areas.

IMPROVEMENTS AND MAINTENANCE

The new Drumm Street Sewage Pumping Station was placed in operation in November 1964 when the construction of the station under Bureau of Engineering contract was sufficiently complete.

The station is equipped with one 2-speed and two single speed electrically operated pump units controlled by a pneumatic system for sensing incoming flow. In addition, the station is equipped with a diesel-driven electrical generating unit of sufficient capacity to provide emergency power automatically for station and equipment, during failures and prolonged interruptions of the electrical service. This station has eliminated the spillage of raw sewage to the Bay at the Jackson Street and Howard Street outfalls and when the construction is fully completed, will replace the Commercial Street Station and correct the critical flooding problem in the same general area.

The new high water alarm system was placed in operation in June 1965 under a Bureau of Engineering contract, to provide the City with the urgent and necessary means for 24 hour surveillance of the sewage pumping stations for the prevention of pollution to the Bay and Shore waters, in adherance to the State Water Pollution Control Board's Resolution No. 588. The stations, sumps and influent structures are equipped with high level pressure switches which trigger an audible and visual alarm at a predetermined sump liquid level. These switches utilize compressed air, trapped within a bell by rising liquid, to close contact mechanically and activate the alarm. The alarm signal is transmitted via leased telephone line to a central control panel at 2323 Army Street.

Major maintenance and repair of pumping equipment is done by personnel from Purchaser's Central Shops. During the fiscal year, the machinists replaced bearings and repaired pumps, shafts and valves in eight stations.

Vandalism to station properties is a serious problem. Windows were broken in Drumm Street, Park Merced and Sea Cliff No. 2 stations. The worst acts of vandalism have occured at Pinelake where the station was subjected to defaced exterior, broken locks and smashed door on numerous occasions during the year.

In addition to the 14 stations, this division also maintains and operates the emergency pumping unit at Twenty-Second and Tennessee Streets and utilizes the Park Merced station as an emergency stand-by for the Lake Merced area.

SEWAGE PUMPING STATIONS
Expenditures and Cost Data

1964-65

Location		Drainage Area In Acres	Million Gals. Pumped	Salaries	Maintenance	Heat, Light & Power	Materials & Supplies	Equipment	Totals	Cost Per M.G. Pumped
General				$ 7,178	$2,666		$ 300	$1,634	$ 11,778	$ 1.44
Commercial Street	X	93	283	9,337	34	$ 1,300	125		10,796	38.15
Drumm Street		332	470	6,694	19	3,149	287	186	10,335	21.99
Fitzgerald Avenue		30	84	1,149	11	675			1,835	21.82
Fourth Street		138	1,806	21,143	1,519	4,954	270		27,886	15.44
Fulton Street		82	90	1,122	877	993	121		3,113	34.59
Hunters Point		90	135	1,764	143	883	26		2,816	20.86
Hyde Street		14	49	588	114	277	80		1,059	21.61
Lake Merced		930	623	7,875	85	4,695	44		12,699	20.38
Lakeshore	Y		8	44		1,306			1,350	168.75
Marina		1,125	2,238	31,694	1,870	6,787	515		40,866	18.26
Mariposa Street		117	276	4,494	200	1,492	31		6,217	22.53
Park Merced	Z		29	49		1,453			1,502	51.76
Pinelake		3	6	588	3	245			836	139.33
Sea Cliff No. 1		4	2	579	3	66			648	324.00
Sea Cliff No. 2		84	104	2,060	428	1,592	150	312	4,542	43.67
Tennessee Street		1		579	3	183			765	765.00
Vicente Street		52	77	1,131	423	800			2,354	30.57
Yosemite Avenue		1,277	1,919	25,980	683	4,535	1,118		32,316	16.84
TOTALS		4,372	8,199	$124,048	$9,081	$35,385	$3,067	$2,132	$173,713	$ 21.19

X To be replaced by Drumm Street
Y Replaced by Lake Merced
Z Utilized for stand-by service

SEWAGE AND WASTE TREATMENT DIVISION

GENERAL

The Sewage and Waste Treatment Division operates the North Point, Richmond-Sunset and Southeast Sewage Treatment plants, controls discharge of industrial wastes, and give advice on operation of sewage treatment facilities under jurisdiction of other City Departments.

The Bureau of Engineering designs capital improvements. Other Public Works bureaus and the Purchaser's shops do major repairs and maintenance requiring specialized crafts. The Bureau of Street Cleaning and Planting maintains landscaping.

The three plants operated continuously during the year except for shutdown for repairs and new construction. Enlargement of the Richmond-Sunset pumping plant necessitated partial bypassing of raw sewage from September 13, 1964 to January 5, 1965. The new station is pumping about 1.3 million gallons daily more than the capacity of the old station. As a result of the interception of this flow, 99.8% of the City's sewage is now connected to the treatment plants. The remaining small areas along the Southeast shore of the City are scheduled for interception next fiscal year.

At the North Point plant, the main power feed lines to the Sedimentation Buildings failed in January requiring use of an emergency tie line to keep the plant operating. The main cables are now being replaced.

At the Richmond-Sunset plant the improved fresh water system was placed in operation in October. The 100 foot digester was placed in operation in April after completion of relining the eroded concrete dome, and warranty testing of the gas recirculation system began in June. The new pumping plant completed in January consists of three 10.9 mgd variable speed lift pumps connected to individual 20 inch I.D. concrete cylinder pipe force mains 400 feet long. Contract work for construction of an additional sedimentation tank and for modernization and increasing capacity of the chlorination system began in May.

At the Southeast plant rehabilitation of the vacuum filters was completed in October and operation of the new gas recirculation system in digester No. 7 started in the same month. Warranty testing of gas recirculation commenced in June. Enlarged and modernized pretreatment facilities completed in April have virtually eliminated throttling of raw sewage flow and the problems associated with throttling. These new facilities consits of two bar racks, two grit tanks, and grit and screenings storage bins. Contract work for modernization of raw sludge thickening and digested sludge elutriation facilities commenced in September and is scheduled for completion early next fiscal year.

SEWAGE TREATMENT METHODS

At each plant sewage is treated to remove oil, grease, floating material, grit, and settleable solids. Grit from all plants and screenings from the North Point and Southeast plants are hauled by truck to the garbage fill south of the county line. At the Richmond-Sunset plant screenings are incinerated and sludge is digested in two-stage digestion, elutriated, and dewatered by vacuum filtration. Filter cake is hauled to City parks for use as soil conditioner. Raw sludge from the North Point plant is pumped to the Southeast plant, where it is combined with raw sludge from the Southeast plant and treated by thickening, two-stage digestion, elutriation, and vacuum filtration. The filter cake, except for a small portion used in City parks, is hauled under contract to the garbage fill south of the county line for burial.

TREATMENT PLANT OPERATION

The following table summarizes data on flows, material removed, chemicals added, products handled, and power and gas purchased for the three plants.

	North Point	Richmond-Sunset	Southeast
Sewage Flow, million gallons			
Total (a)	20,542	6,295	6,541
Avg day	56.3	17.3	18.6
Avg day, dry weather (b)	52.2	17.7 (c)	18.3 (c)
Max day, wet weather	99.6	26.6	25.1
Max day, dry weather	60.8	21.4	22.6
Max rate, wet weather	108	38	38 (d)
Max rate, dry weather	79	33	36
Screenings, cu ft			
Total	55,801	18,955	22,902 (e)
Max day	300	92	220
Per million gallons	2.7	3.0	3.5
Grit, cu ft			
Total	75,789	43,362	18,342 (e)
Max day	810	621	540
Per million gallons	3.7	6.9	2.8
Chlorination, lb (f)			
Pre	487,040		
Post	1,248,090	543,040	
Total	1,735,130	543,040	
mg per liter dry weather	14.2	11.4	
Sludge Solids, M lb (dry)			
From sedimentation	26,750 (g)		37,458 (h)
To digesters (i)		4,516	49,636
Filter cake		813 (j)	13,999 (k)
Ferric Chloride			
Total, lb		40,130	750,400 (l)
% filter cake solids		4.94	5.36
Gas Production, M cu ft			
Total		42,506 (m)	192,109
Avg day		116	526

Power and Gas Purchased			
Power, total M kwh	5,584.8	1,706.4	4,459.2
Power, avg/mo, M kwh	465.4	142.2	371.6
Natural gas, total C cu ft	72,732	22,750	19,897
Natural gas, avg/mo, C cu ft	6,061	1,896	1,658
Hauling			
Trips, grit and screenings	684		272
Trips, grit and filter cake		564	
Trips, filter cake to parks			13

NOTES:

(a) For 364.6 days North Point, 363.5 days Richmond-Sunset during which part of flow bypassed on 85 days for plant reconstruction, 351.0 days Southeast during which part of flow bypassed on 75 days for plant reconstruction.

(b) Excluding days with .01 inch or more rain and dry days following days with .05 inch or more rain.

(c) Excluding days flow partially bypassed for plant reconstruction.

(d) Flow restricted during storms to avoid overloading grit handling facilities.

(e) Reduction from previous years due to improved handling and change in method of measurement.

(f) North Point: prechlorination continuous; postchlorination March through November and during extended dry weather periods in winter months. Richmond-Sunset: postchlorination continuous except during storms.

(g) For 361.3 days; sludge bypassed to bay 3.7 days while repairing crosstown line. Sludge solids greater than normal because of high salt water infiltration into collection system.

(h) Includes recirculating load from raw sludge thickening and digested sludge elutriation overflows.

(i) From raw sludge thickening; Richmond-Sunset reduction from previous year due to better control of solids in overflow.

(j) Limited filter operation during plant reconstruction.

(k) 20,926 tons (wet basis) hauled under contract to garbage fill at $1.623 per ton and 73 tons (wet basis) used by City.

(l) Includes 19,250 lb Dow Polymer used in plant scale experimental filter operation equivalent to approximately 122,200 lb Ferric Chloride.

(m) Metered quantity only; considerable losses thru digester seals and covers.

COST OF OPERATION

Cost of operation was approximately $1.76 per capita based on an estimated tributary population of 770,000.

MAJOR MAINTENANCE

NORTH POINT PLANT:

Renewing main sludge collectors in No. 1 and 6 sedimentation tanks and cross collector in No. 3 sedimentation tank.
Renewing collectors in No. 2 and 4 grit tanks.
Turning sand collector chain and renewing flight hangers in East lift pump sump.
Renewing sand pit gratings in Pretreatment Building.
Regalvanizing 12 screenings buckets.
Reshaping sludge hoppers in sedimentation tanks.

RICHMOND-SUNSET PLANT:

Renewing collector in No. 4 grit tank.
Renewing digester gas line to boilers .
Rebuilding East bar rack and making standby rake.

SOUTHEAST PLANT:

Renewing main sludge collectors and spray lines in No. 1 sedimentation tank, and cross collectors in No. 1 and 4 sedimentation tanks.
Rebuilding four low pressure air blowers.
Renewing wearing rings and impeller nuts twice on No. 2 and once on No. 3 main lift pumps; welding and machining broken shaft on No. 3 main lift pump.
Retubing three sludge heaters.
Replacing all grit tank wearing shoes.

SPECIAL STUDIES AND INVESTIGATIONS

1. Completed:

    Special sampling program at Drumm Street pumping station in conjunction with comprehensive investigation of San Francisco Bay conducted by University of California for State Water Pollution Control Board.

    Reports to Regional Water Pollution Control Board on coliform survey of bay waters.

    Automatic residual control of chlorination.

    Simplified chlorine residual test for plant operators.

    Distribution of digester solids and temperature with gas recirculation.

    Effect of denitrification on chlorine requirements at County Jail No. 2 activated sludge plant.

2. Continuing:

    Identification of source in leak and seepage complaints.

    Receiving water monitoring programs required by Regional Water Pollution Control Board.

    Sanitary survey of shore waters.

    Chlorine residuals and coliform mortality.

    Coliform die away rates in bay water.

    Volatile solids reduction with digester gas recirculation.

    Optimizing operation parameters in air degritting.

    Effect of flow distribution to sedimentation tanks on settleable solids removal.

INDUSTRIAL WASTES

Field investigation of industrial and commercial establishments continued during the year. More than 2,000 inspections were made and a total of 1,180 samples were collected by the Industrial Waste Inspector and analyzed by the Inspector or treatment plant laboratories. About 110 samples were from a tannery connected to the Southeast Plant, and were analyzed for chlorine demand, biochemical oxygen demand and suspended solids. In the continuing survey of commercial garbage grinders, 212 super markets were inspected.

In addition to the planned program, 307 industrial wastes violation complaints were investigated, and four cease and desist orders were issued.

During the year industries installed, improved, or made operative the following pretreatment units:

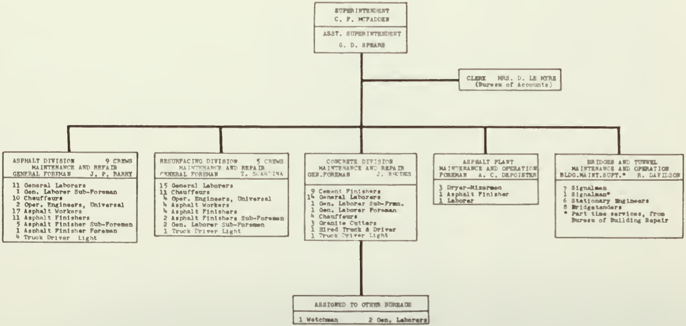
Screens and grease separators at 3 rendering plants.
Settling basins at 2 concrete mixing plants.
Snag machines, screens, and settling basins at a tannery.
Screens and settling basins at 5 coffee processing plants.
Holding tanks at 2 metal plating works.
Screens and settling basins at 2 paint factories.

ORGANIZATION CHART

BUREAU OF STREET REPAIR

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1965



BUREAU OF STREET REPAIR
C.F. McFADDEN, Superintendent

FUNCTIONS

The functions of the Bureau of Street Repair continue to be substantially as stated in previous reports:

Routine work includes the maintenance and repair of streets and appurtenance structures such as gutters, curbs, retaining walls, public stairways, pedestrian underpasses and overpasses, guard rails and fences; the maintenance of a city dump, the maintenance and operation of lift bridges, tunnels and underpasses.

Work ordered by the Director includes traffic channelization, minor street alterations, minor construction and emergency work for the protection of the City and/or the public.

Work performed for other departments or bureau includes the repair of pavement in Municipal Railway track areas, the repairing of trenches opened by the Bureau of Sewer Repair for the installation or repair of side sewers, the repair of certain state highways within the City and the yards of other City institutions. The Bureau also performs other minor services of varied nature.

Previous to this fiscal year, the City's charter provided that repair or reconstruction on any one job could not exceed a cost of $2,000. In the November, 1964 election the voter auproved a charter amendment which allowed the Board of Supervisors to pass an ordinance increasing this amount up to a maximum of $5,000. The City's charter also prohibits work on unaccepted streets, except in emergency, and on sidewalks in front of private property. Unaccepted streets are those streets that have not been properly improved and officially accepted for maintenance and repair by the City.

Activities are further limited by state law governing the expenditures of monies from which the bureau is financed.

Maintained road mileage is as follows:

Select System, (comprised of Major Arterial Streets and Collector Streets)	323.34
Other City Streets	498.90
State Highways	12.37
TOTAL	834.61

Inasmuch as San Francisco is a combined city and county, its streets and road systems are one and the same.

ORGANIZATION AND PERSONNEL

On October 16, 1964, Mr. John Rhodes and Mr. Thomas Scardina were appointed permanent 7282 Street Repair General Foreman, thereby filling vacancies that had existed since June 16, 1963.

During the year, twenty other permanent appointments were made in various classifications. However, the organization of the bureau remained about the same as for the previous year. An organization chart as of June 30, 1965 accompanies this report.

Municipal Asphalt Plant

SUPERVISION

No change has been made in the Bureau's supervisory force which is composed of a superintendent, assistant superintendent, three general foremen, asphalt plant foreman and the part time services of a building maintenance superintendent.

The bureau's safety program has been intensified, with the cooperation of the Central Safety Committee, in an effort to reduce personal injuries and equipment accidents. This program is under the direction of the assistant superintendent, and meetings are held each month to review all types of accidents and plan corrective action.

EQUIPMENT

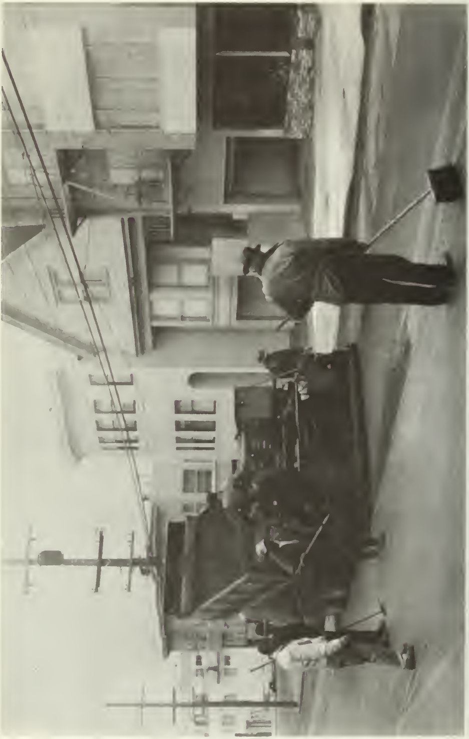
New equipment procured during the year consisted of a 6-8 ton La Crosse tip trailer to be used primarily for transporting a small 3-5 ton roller.

Equipment replacements consisted of four dump trucks, two pickup trucks, one 125 c.f.m. rotary compressor, one Clipper concrete saw, one automobile and one pavement breaker.

One of the replacement dump trucks is equipped with a small hydraulic crane, to be used by our curbset crew to facilitate the loading and unloading of granite curb. In the past, granite curb had to be handled by hand and/or by the use of a five ton crane and operator.

EXPENDITURE

Accompanying tabulations show expenditures for each of the several budgeted items for each of the past five years. Percentage increases for road repair costs, wage rates and material prices are shown with the tabulation of expenditures for "Street repair." Percentage increases for bridge, tunnel and underpass maintenance and operation costs and for salary rates are shown with the tabulation of expenditures for "bridges, tunnels and underpasses."



Machine Resurfacing

EXPENDITURES

STREET REPAIR

Budget Item	1960-61	1961-62	1962-63	1963-64	1964-65
Permanent Salaries	$ 44,817	$ 44,878	$ 54,032	$ 57,114	$ 62,074
Allowance for Overtime	43	140	125	296	440
Allowance for Holidays	878	636	879	651	855
Temporary Salaries	139	296	449	222	-
Wages	994,338	1,022,593	1,162,505(c)	1,165,764	1,208,920
Contractual Services	89,469	87,246	103,259	115,717	127,958
Auto Mileage-Employees' Cars	38	25	43	36	49
Truck Hire	12,983	13,760	14,417	15,499	15,601
Materials & Supplies	259,575	258,654	258,919	257,170	262,150
Equipment	52,479	23,756	18,424	28,000	52,998
Accident Compensation (b)	11,220	10,119	9,627	10,689	7,360
Automobile Insurance	6,820	7,282	7,716	7,472	7,458
Retirement Allowance (b)	203,235	125,140(a)	131,572(c)	136,205	115,624
Employer's Tax, Social Security (b)	24,941	33,810	33,706	29,252	26,289
Allowance for Medical Plans (b)	9,160	9,078	25,309	16,800	19,576
Services of Other Departments	23,331	24,200	26,855	27,904	28,309
Total Expenditures	1,733,466	1,661,613	1,837,837	1,868,791	1,935,661
Road Repair Costs;* % Increase:					
Over Previous Year		-.9	5.6	6.9	3.9
Over 1960-61		-.9	4.6	11.9	16.4
Wage Rates; % Increase:					
Over Previous Year		5.0	6.1	4.3	4.9
Over 1960-61		5.0	11.5	16.3	22.0
Materials Prices: % Increase:					
Over Previous Year		-.2	-.5	-.2	0.9
Over 1960-61		-.2	-.7	-.9	-.02

* Equipment Excluded; "b" Allowances Adjusted

(a) Contribution Rate Reduced.

(b) Includes Allowance for other Bureaus and Departments.

(c) Includes Retroactive Health & Welfare Payments - 7/1/58 thru 6/30/62.

EXPENDITURES	BRIDGES, TUNNELS AND UNDERPASSES				
Budget Item	1960-61	1961-62	1962-63	1963-64	1964-65
Permanent Salaries	$ 124,888	$ 128,588	$ 133,393	$ 139,787	$ 141,154
Allowance for Overtime	39	49	38	46	80
Allowance for Holidays	5,699	5,837	6,165	7,183	6,562
Temporary Salaries	9,768	7,185	6,508	8,255	8,969
Contractual Services	20,418	21,581	19,370	21,680	36,480
Materials and Supplies	1,448	1,475	1,663	1,662	1,793
Accident Compensation			-	-	-
Retirement Allowance			9,111	9,690	8,099
Employer's Tax, Social Security			2,723	3,081	3,555
Allowance for Medical Plans			1,210	1,233	1,292
Services of Other Departments	10,145	7,498	8,632	10,386	11,215
Total Expenditures	$ 172,405(a)	$ 172,213(a)	$ 188,813	$ 203,003	$ 219,199
Expenditures; % Increase:					
Over Previous Year		-.1	9.6	7.5	7.9
Over 1960-61		3.0	12.9	21.4	27.1
Salary Rates; % Increase:					
Over Previous Year		4.3	7.0	3.3	0.9
Over 1960-61		4.3	11.6	15.3	16.3

(a) Accident Compensation, Retirement Allowance, Employer's Social Security Tax and Allowance for Health Service System are included in Street Repair Budget.

WORK PERFORMED

	Unit	Quantity	Total Cost	Unit Cost
Asphalt Resurfacing - Hand				
Asphalt Paving	Sq. Ft.	470,641	$65,501	$ .1392
(127.9 sq. ft. per ton)	Tons	3,680		17.799
Asphalt Resurfacing - Machine				
Asphalt Paving	Sq. Ft.	4,837,338	277,542	.0573
(162.3 sq. ft. per ton)	Tons	29,808		9.311
Asphalt Resurfacing - Box				
Asphalt Paving	Sq. Ft.	954,074	100,048	.1049
(139.5 sq. ft. per ton)	Tons	6,837		14.654
Asphalt Patching				
	Sq. Ft.	788,270	230,692	.2927
(152.4 sq. ft. per ton)	Tons	5,172		
Asphalt Paving (Cut-Outs)				
Compressor Work	Sq. Ft.	200,928	42,946	.2137
Asphalt Paving	Sq. Ft.	225,863	58,825	.2604
(72.7 sq. ft. per ton)	Tons	3,107		18.933
Cleanup		225,863	51,936	.2299
Curb Reset and Replaced				
Compressor Work	Lin. Ft.	27,048	45,243	1.673
Granite Reset	Lin. Ft.	17,023	33,820	1.987
Granite Replaced	Lin. Ft.	4,623	13,863	2,998
Concrete Reset	Lin. Ft.	508	1,027	2,022
Concrete Replaced	Lin. Ft.	4,401	18,018	4.094
Pavement-Asphalt	Sq. Ft.	24,577	19,854	.8078
Pavement-Concrete	Sq. Ft.	3,650	6,639	1.819
Sidewalk	Sq. Ft.	25,619	40,699	1.589
Cleanup	Lin. Ft.		66,894	
Total			246,057	

	Unit	Quantity	Total Cost	Unit Cost
Concrete Curb Repair			$ 7,990	$
Curb Yard				
Redress Granite Curb	Lin. Ft.	11,825	16,296	1.378
Sort, Move, Etc.			11,017	
Total			27,313	
Crack Sealing				
Sealing	Lin. Ft.	1,729,740	142,908	.0826
Cleanup			22,342	
Total	Lin. Ft.	1,729,740	165,250	.0955
Manhole Casting Reset	Each	578	42,179	72.974
Concrete Pavement Repaired	Sq. Ft.	6,509	12,961	1.991
Sidewalk Reconstructed	Sq. Ft.	20,269	27,609	1.362
Mud Jacking			4,644	
Heater Planing	Lin. Ft.	313,729	54,164	.1726
Slide & Debris Cleanup			34,344	
State Highways			2,574	
Asphalt Paving	Sq. Ft.	4,281		
Work for Other Bureaus & Depts.				
Asphalt Paving			101,260	
Concrete Paving			18,309	

MUNICIPAL ASPHALT PLANT

The Municipal Asphalt Plant continued to function satisfactorily and, during the year, produced 50,727 tons of asphaltic mixtures.

There were no major plant breakdowns during the year. Normal maintenance and repair was performed during periods of low production or on Saturdays; the latter amounted to approximately six days for five men.

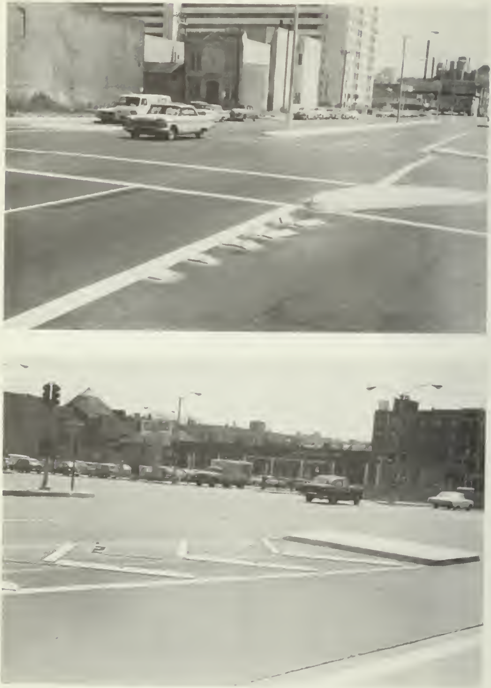
During June, 1965, the dust collecting cyclone and several other sections of the plant were cleaned, primed and painted by the Bureau of Building Repair, as a contractual service, for a cost of $1,066.

Mixtures produced, and their compositon, were as follows:

		COMPOSITION - %				
Mix Designation	Tons	Asphalt	#6	5/16"	5/8"	1-1/4"
Surface	3,525	8-1/2	91-1/2			
School	9,064	7	60	33		
Topeka	36,664	6	45	25	24	
Spreader	375	5-1/2	40	25	17-1/2	12
Binder	895	3-1/2	21	28	22-1/2	25
Cold	204	*	35-1/2	27-1/2	30-1/2	
Total	50,727					

*1/2% asphalt and 6% Pacific specification 300 fuel oil.

Aggregates were screened into "hot bins" from a combination of Antioch (fine graded) sand, course graded sand and three sizes of gravel. Asphalt used was 60-70 penetration, paving grade.



Asphalt Traffic Island Installations
Webster Street Between Eddy St. and Geary Boulevard

Production costs for the 50,727 tons produced during the year were as follows:

Direct Labor	$ 56,165	or	$1.11 per ton
Indirect Labor	2,803	or	.05
Overhead	12,641	or	.25
Materials	196,677	or	3.88
Gas, Electricity, etc.	16,232	or	.32
Total	$284,518	or	$5.61 per ton

ASPHALT TRAFFIC ISLANDS

During the year the bureau experimented with the use of an automatic curb extruding machine to construct some temporary traffic and pedestrian refuge islands for the Bureau of Engineering. The curb machine was used on a rental basis. A total of fourteen islands were constructed in Webster Street between Eddy Street and Geary Boulevard. They ranged in size from 5 x 15 feet to 10 x 15 feet. The outline of the islands were formed with the machine. The center sections were then filled with sand and topped with a 2 inch layer of asphaltic concrete. A considerable savings in time and money was realized over the conventional portland cement concrete construction methods normally used. It appears that for temporary installations of this type, the automatic curber has good possibilities.

BRIDGES, TUNNELS AND UNDERPASSES

The City's three bascule type bridges and their operation were described in report for year ending June 30, 1960; Broadway Tunnel and its operations was described in report for year ending June 30, 1959; The Geary Expressway Underpass pumping facilities at Fillmore Street was described in report for year ending June 30, 1963.

Bridge openings during the past year and the previous five years were as follows:

Year	Third Street	Fourth Street	Isalais Creek
1964-65	1866	1627	287
1963-64	2100	1697	391
1962-63	2207	1842	589
1961-62	2122	1650	941
1960-61	1503	1102	962
1959-60	1008	573	762

All three bridges showed a decrease in the number of openings. There has been a decline in the number of fishing boats berthing in the channel at Third and Fourth Streets and in the Islais Creek basin.

Extensive repairs were completed at the Fourth Street Bridge during the year. Included were structural repairs; replacement of wooden decks in the sidewalk areas; installation of new hydraulic leaf lock assemblies and new shock absorber assemblies; installation of a new traffic gate and two new street lights; cleaning, sandblasting and painting of the entire structure.

Fourth and Channel Bridge

Statistics regarding the Broadway Tunnel ventilation, lighting and traffic are as follows:

Ventilation - Blower Operating Time

	North Bore				South Bore			
Year	Westbound Traffic				Eastbound Traffic			
Ending	Slow		Fast		Slow		Fast	
June 30	Hours	Percent	Hours	Percent	Hours	Percent	Hours	Percent
1965	497.8	5.68	16.5	.19	73.1	.83	29.5	.34
1964	657.0	7.48	12.8	.14	52.6	.60	30.0	.34
1963	467.8	5.34	12.0	.13	42.6	.49	27.0	.31
1962	891.3	10.17	19.6	.22	112.8	1.29	32.3	.37
1961	423.7	4.83	10.8	.12	51.7	.59	36.0	.41
1960	200.1	2.28	5.9	.07	32.2	.37	26.2	.30

Lighting - Lamps Replaced

	Occasions	72T8's	72T12's	Total
Lamps in Service		1004	332	1336
Replaced During Year	2	635	76	711
Previously Replaced	48	5534	404	5938
Totals (Since Dec. 1952)	50	6169	480	6649

Traffic Counts

		Eastbound	Westbound
Tuesday	March 3, 1964	11,589	10,723
Tuesday	December 15, 1959	12,216	10,359
Thursday	July 10, 1958	11,144	9,478
Wednesday	March 16, 1955	10,609	9,795
Monday	August 17, 1953	9,361	8,878
Wednesday	February 11, 1953	8,668	8,770

The tunnel was put into service in December 1952.

The pumping facilities at the Geary Expressway Underpass at Fillmore Street continued to operate satisfactorily during the year. A high water alarm system was installed, with warning equipment at the Army Street Yard, to protect against flooding in case of mechanical or electrical failure at the station.

Pump operating hours during the year and previous years were as follows:

Year	Pump #1	Pump #2
1964-65	277	249
1963-64	380	375
1962-63*	239	246

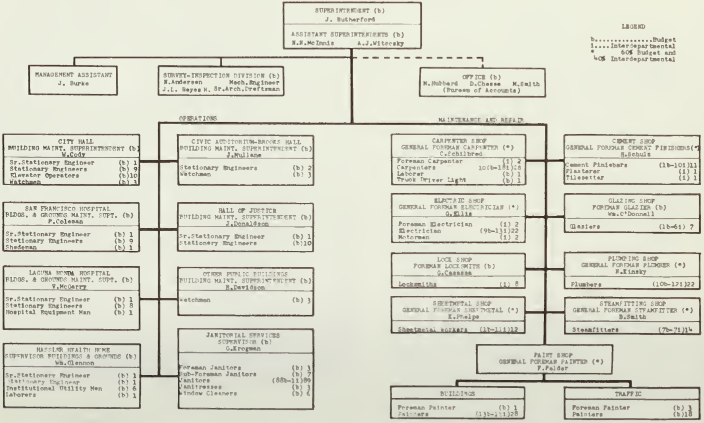
*Pumps operated for approximately seven months during year.

ORGANIZATION CHART

BUREAU OF BUILDING REPAIR

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1965



BUREAU OF BUILDING REPAIR

J. Rutherford, Superintendent

The Bureau of Building Repair primary responsibility is providing services and materials and supplies for the maintenance, repair, replacement and reconstruction of 316 public buildings which have been established by Charter authority or policy as being the responsibility of the Department of Public Works. The following are secondary functions in relative order of importance:

1. Provide operational and/or janitorial personnel and supplies for 107 of these public buildings requiring the services of 186 budgeted employees.
2. Provide maintenance and repair service to other City departments or agencies through an interdepartmental work order procedure, or competitive public contracts. The relative volume of work is indicated in Figure 1.
3. Provide through budget transfer or interdepartmental work order procedure with the Bureau of Engineering:
    a. Labor, supervision and materials for street traffic painting.
    b. Maintenance and repair of all street name signs.
    c. Maintenance and repair of street structures, sidewalks, and various monuments.
4. Conduct engineering-architectural inspection surveys on certain public buildings for a preventative maintenance program.

ORGANIZATION AND PERSONNEL

The organizational chart shown on the first page of this report shows that the Bureau of Building Repair has three divisions: 1. Administrative 2. Maintenance and Repair and 3. Operations. The Maintenance and Repair Division is composed of building trade mechanics while the Operation Division is composed primarily of institutional type employees. The chart also contrasts the number and type of budgeted positions (b) with the interdepartmental positions (i). There are 278 budgeted employees and 109 interdepartmental employees. Most of the budgeted building trades mechanics are on long term assignment to various public buildings. Interdepartmental personnel consists of various building trade mechanics employed on a "as needed" basis, the number depending upon the work load and funds provided by other City departments or agencies.

INTERDEPARTMENTAL WORK

The total interdepartmental work for all departments, except schools, increased 2.85% over last year. The school department's work load, however, continued to decrease dropping 1.48% since last year. During the year, 10,452 requisitions for miscellaneous school repairs were completed which averages 41 per working day. Of this total, 3,609 were emergency requests requiring immediate response. Analysis of the completed work shows that 46.72% of the jobs cost $25.00 or less and 87.92% cost $100.00 or less. The average cost per requisition was $52.38. The glazing shop saved $2,607.00 on school work material by the judicious use of salvaged glass from broken windows which was cut into smaller sizes and reused. The total overhead for the interdepartmental operations averaged 48.04% for the year as compared to 46.90% for the prior year. The overhead for any and all interdepartmental units is necessarily close to this figure and consists of items over which the Bureau has no control such as retirement, workmen's compensation, sick leave, vacations, supervision, truck charges, etc.

SIGNIFICANT CHANGES, PROBLEMS AND PROGRESS OF 1964-65

The $2,000.00 Charter limitation on repair work which has restricted operations for many years has now been changed, with approval of the voters, to $5,000.00. This will enable the Bureau to perform its function more efficiently and expeditiously by eliminating much of the overhead costs and time delay involved with the more formal contract procedure previously required on work over $2,000.00.

This year the Recreation-Park Department requested the Bureau's assistance in surveying their physical plant and budgeting for maintenance and repair items. As a result of this service, the Bureau was assigned the responsibility and was able to complete all planned projects as well as a great deal of other urgent miscellaneous work within the fiscal year. It is understood that the Recreation-Park Department was well pleased with Building Repair's efforts and will continue to assign maintenance work to this Bureau.

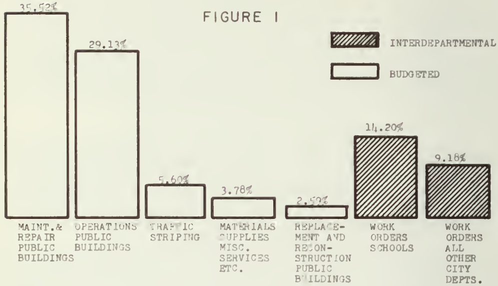
During the year the School Department reorganized and expanded their own carpentry and painting work forces, and as a result, Building Repair's school crew was cut 7 positions. Fortunately, the additional work load from the Recreation-Park Department and normal attrition offset this loss of school work thereby preventing any lay-off of permanent personnel.

No visible progress was made in convincing the School Department to change their policy that limits repair work to be performed by the Bureau. Despite recommendations of the Blyth-Zellerbach Committee and other knowledgeable groups, the School Department still continues to contract for all routine maintenance and repair work over $500.00. To keep within this self-imposed limitation, the Bureau is now being requested to make estimates on which the School Department themselves supplies the material.

Progress continues to be made through increased efficiency and better equipment. The Hi-Ranger mobile work platform recently received is a good example. On the first job used at Aptos Junior High School, $350.00 was saved in scaffolding costs. At 150 Otis Street, the Public Welfare office, a 4" pipe roof leader on this building was replaced in 1 day by utilizing the Hi-Ranger which was able to reach the 7th floor.

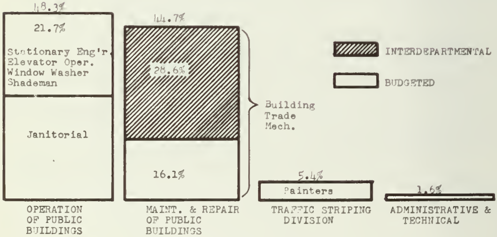
BUREAU OF BUILDING REPAIR

FIGURE 1



PROPORTIONAL EXPENDITURES OF ALL MONEY 1964-65

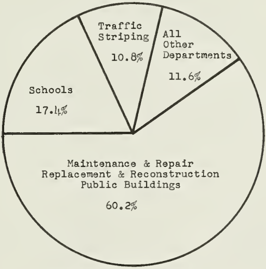
FIGURE 2



PERSONNEL ASSIGNMENT

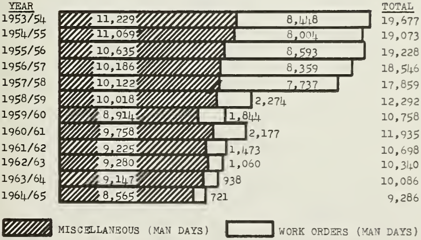
BUREAU OF BUILDING REPAIR

FIGURE 3

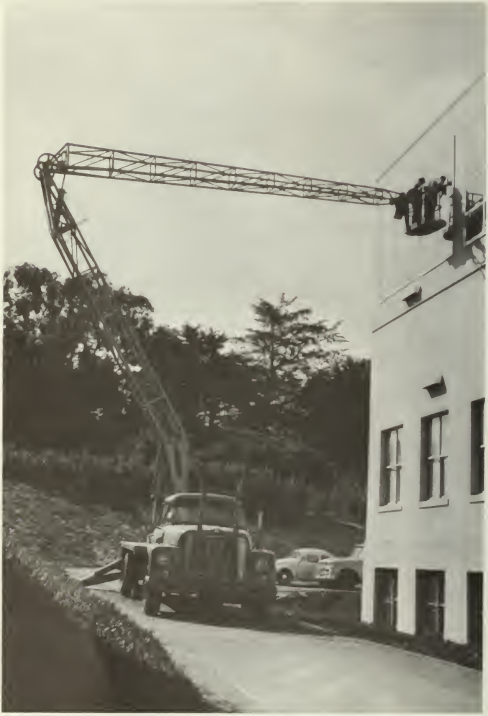


ASSIGNMENT OF BUILDING
TRADES PERSONNEL
(194 Employees)

FIGURE 4



SCHOOL WORK LOAD



Hi-Ranger Mobile Work Platform.

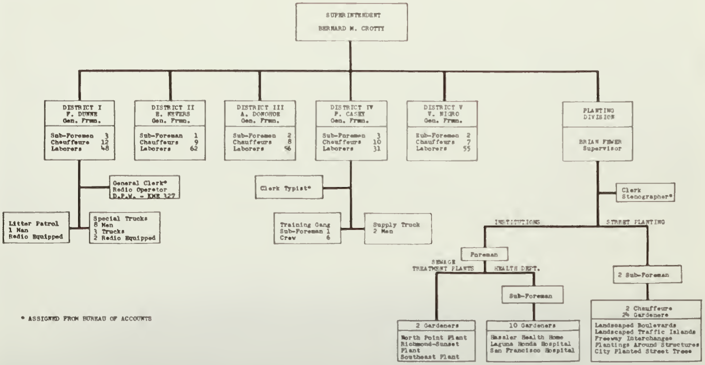
Replacing Traffic Signs with 3M Reflective Sheeting on the New Vacumn Applicator.

ORGANIZATION CHART

BUREAU STREET CLEANING AND PLANTING

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1965



* ASSIGNED FROM BUREAU OF ACCOUNTS

BUREAU OF STREET CLEANING AND PLANTING

Bernard M. Crotty, Superintendent

The Bureau of Street Cleaning and Planting is responsible for the cleaning of 1,700 curb miles of streets, 110 miles of center islands, and the maintenance of over 240 acres of landscaping and 7,600 street trees. During 1964-1965, the Bureau had 379 employees in two divisions and expended $3,240,000 to conduct its operations. Street cleaning functions required $2,970,000 and landscape maintenance required $270,000.

STREET CLEANING DIVISION

In addition to cleaning public street surfaces, the Street Cleaning Division cleans 11 pedestrian and vehicular underpasses, 215 public stairways and 7 neighborhood off-street parking lots. This Division of the Bureau also controls weeded areas and cleans numerous City lots, City College roads, monument statuaries, and several other City owned facilities.

RADIO STATION KME 327

The Department of Public Works radio transmitter, which is located in the Street Cleaning office on Army Street, receives, transmits, and logs all messages from 30 mobile radio units. This radio is monitored by the Bureau from 6:30 A.M. to 5:00 P.M. each working day.

EQUIPMENT

71units of modern street cleaning equipment logged approximately 480,000 miles transporting over 100,000 cubic yards of refuse to the "fill-and-cover" dump southeast of San Francisco.

Provided through regular budget procedures, the Bureau received 4 heavy trucks, 3 passenger automobiles and other small equipment at a total cost of $77,000.

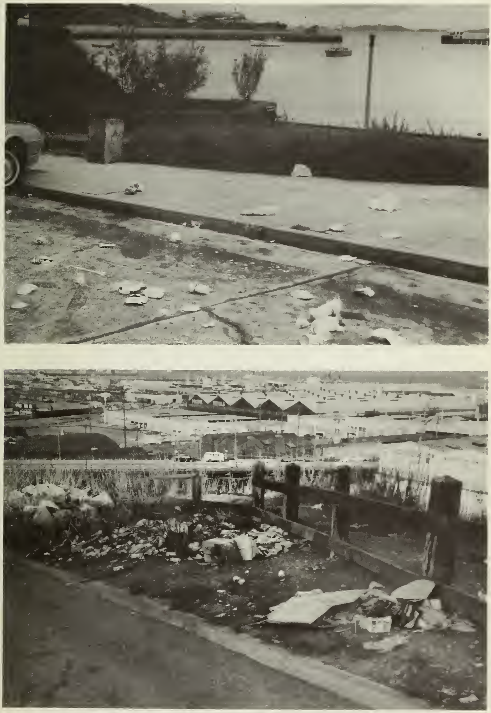
REORGANIZATION

During the past year a complete plan for the reorganization of the Street Cleaning Division was formulated. As a result of the studies made, the proposed reorganization will result in a reduction in the number of employees required to clean the streets of San Francisco. However, a marked increase in efficiency will still be maintained.

PREVENTIVE STREET CLEANING

We are particularly pleased with the cooperation received this year from the District Council of Neighborhood Merchants during our fourth annual anti-litter campaign. Each of the 21 neighborhood shopping areas pledged to fight the litter problem in their area. Fourteen of them designed and decorated buggies for the kick-off activities in Union Square. This contest and the Sweepers Derby have been of inestimable morale value to street cleaning personnel. They enjoy the well deserved public recognition and new respect and affection shown them by the citizenry. Our lectures and equipment demonstrations at the schools have also been very successful.

Typical abuse of street litter receptacle.



Two lovely views of San Francisco Bay; one spoiled by litter, the other by garbage

A study in safety, cleanliness and efficiency

Typical street corner in many business districts in the early morning. Refuse generally has been out overnight.

TABLE I

DEPARTMENT OF PUBLIC WORKS
Bureau of Street Cleaning and Planting
CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA
Annual Report - Gang Sweeping - Fiscal Year 1964-1965

(Sweeping Frequencies For Gang Route Numbered:)

Month	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
1964 July	2.30	4.60	3.83	2.22	1.57	2.20	2.66	2.00	2.44	3.00	2.87	*
August	2.20	4.20	4.00	1.61	1.53	1.75	2.33	1.75	2.33	2.62	2.62	
September	2.00	4.60	3.33	1.53	1.42	1.33	2.00	1.72	2.33	2.22	2.50	
October	2.12	4.40	4.00	1.90	1.40	2.00	2.33	1.83	2.20	2.55	2.00	
November	2.00	4.20	3.16	2.00	1.66	2.00	2.37	1.81	1.90	2.50	2.10	
December	2.55	4.60	4.60	2.75	2.00	2.33	2.87	2.00	2.62	3.00	2.62	
1965 January	2.10	4.00	5.00	2.50	1.75	2.11	2.22	1.81	2.50	2.50	2.50	
February	2.22	3.80	4.50	2.37	1.58	1.60	2.25	1.58	2.25	2.57	3.80	
March	2.85	4.60	4.40	1.46	2.00	2.44	2.66	2.09	3.14	3.28	3.00	
April	2.55	4.40	5.00	3.00	1.75	2.30	2.50	2.00	2.71	2.86	2.75	
May	2.22	4.00	3.80	3.00	1.58	2.00	2.22	1.81	2.62	2.50	2.50	
June	2.62	4.40	5.50	3.50	2.00	2.44	2.62	2.00	2.44	2.33	2.10	
Totals	27.73	51.80	51.12	27.84	20.24	24.50	29.03	22.40	29.48	31.93	31.36	

NOTE: Each Gang is under supervision of a Labor Sub-Foreman and is composed of 4 to 6 hand-sweepers with a truck crew of 1 Chauffeur and 2 Laborers. Length of each route varies from 66 to 270 curb-miles.

* Gang #12 is Weeding Gang

TABLE 2

DEPARTMENT OF PUBLIC WORKS
Bureau of Street Cleaning and Planting
CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA
Annual Report - Motor Sweeping - Fiscal Year 1964-1965

Month	Curb Miles Swept	Sweeper Loads (Number)	DISPOSITION OF **15 SWEEPERS (hours) Sweeping	Downtime*	Total Work-day Hours	Downtime* (Percentage)	Average Number of Sweepers in Operation
1964 July	5,439	328	1,685	1,183	2,868	41.24	8.81
August	4,577	280	1,380	1,264	2,644	47.80	7.83
***September	4,270	254	1,268	1,104	2,372	46.53	7.49
October	4,428	287	1,338	1,434	2,772	51.71	7.24
November	4,016	264	1,223	1,313	2,536	51.77	7.23
December	5,099	328	1,604	1,148	2,752	41.71	8.74
1965 January	4,349	326	1,360	1,232	2,592	47.52	7.87
February	4,128	275	1,259	1,149	2,408	47.71	7.84
March	5,817	339	1,799	1,093	2,892	37.79	9.33
April	5,418	329	1,663	1,093	2,756	39.65	9.05
May	5,427	334	1,645	919	2,564	35.83	9.63
June	5,418	353	1,706	1,086	2,792	38.89	9.17
Totals	58,386	3,697	17,930	14,018	31,948	-	-
Averages per Month	4,865	308	1,494	1,168	2,662	44.01	8.35

NOTE: * Downtime includes all workday time that equipment is not engaged in actual street sweeping; such when undergoing repairs, held for servicing or for standby

** 14 Sweepers + 1 night sweeper = 15 sweepers total

*** Only 14 Sweepers during September

TABLE 3

DEPARTMENT OF PUBLIC WORKS
Bureau of Street Cleaning and Planting
CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA
Annual Report - Motor Flushing - Fiscal Year 1964-1965

Month	Curb Miles Flushed	No. of Stops for Refilling Water Tanks	DISPOSITION OF 10 FLUSHERS (Hours) Flushing	Downtime*	Total Work-Day Hours	Downtime* (Percentage)	Average Number of Flushers in Operation
1964 July	6,376	2,934	1,256	620	1,876	33.02	6.70
August	5,926	2,692	1,168	560	1,728	32.40	6.76
September	6,086	2,757	1,186	450	1,636	27.50	7.25
October	5,922	2,786	1,161	639	1,800	35.50	6.45
November	5,861	2,621	1,140	516	1,656	31.14	6.89
December	6,666	3,081	1,353	463	1,816	25.48	7.45
1965 January	5,754	2,581	1,140	548	1,688	32.45	6.76
February	5,173	2,407	997	543	1,540	35.23	6.48
March	5,487	2,657	1,101	783	1,884	41.54	5.85
April	5,732	2,626	1,147	645	1,792	35.98	6.40
May	5,861	2,745	1,143	509	1,652	30.81	6.92
June	5,705	2,577	1,119	685	1,804	37.95	6.20
Totals	70,549	32,464	13,911	6,961	20,872	-	-
Averages Per Month	5,879	2,705	1,159	580	1,739	33.25	6.67

NOTE: Each Flusher is operated with 1 Chauffeur and 1 Laborer for handling flushing controls.
*Downtime includes all work-day time that equipment is not engaged in street flushing; such as when undergoing repairs, held for servicing, or standby or when operating on work of different nature.

STREET PLANTING DIVISION

This Division of the Bureau of Street Cleaning and Planting is responsible for maintaining the landscaping on streets, boulevards and freeway interchanges. In addition, the Division also maintains City planted street trees, landscaping around the three sewage treatment plants, San Francisco General Hospital, Laguna Honda Home, Hassler Health Home and seven Neighborhood Off-Street Parking Lots.

NEIGHBORHOOD OFF-STREET PARKING LOTS

During this past year, the Division was given responsibility for maintaining the landscaping at the seven new Neighborhood Off-Street Parking Lots.

Annual tree pruning operating on Lombard st. Note safety precautions for traffic control and personal and private property protection.

SEASONAL MAINTENANCE

Substantial improvement in the quality of our maintenance has been possible because of funds appropriated to engage seasonal employees and other services.

IRRIGATION SYSTEMS

The worn out irrigation system on Sunset Boulevard is gradually being replaced by a modern system and this program is paying dividends in saving of labor and improved appearance of the plantings on Sunset Boulevard. This new system with its modern timing devices allows watering schedules to be set between midnight and 6 a.m. Many complaints from the public such as wet windshields, skidding on wet pavement or being startled by wind driven water pelting their cars have been eliminated. Thus far that portion of the system from South Drive in Golden Gate Park to Lawton Street has been renewed.

The old hose and bib irrigation system in the landscaped area around San Francisco General Hospital is gradually being replaced with a simple but modern spray-head type irrigation system.

One of the main advantages in the newer type irrigation systems is uniformity of watering which relieves the gardener of time consuming hand watering.

EMPLOYEE TRAINING

About half of the Division's 36 gardeners have attended or are attending an in-service training course in horticulture at San Francisco City College. The benefits of such a course are twofold, the City receives a higher quality of work and the men are better prepared for advancement to more responsible positions.

STREET BEAUTIFICATION PROGRAM

This past year, $60,000 was appropriated for continuation of the Department of Public Works' street planting program. Some of the area to be improved with these funds are traffic islands at 17th and Ord Streets, Masonic Avenue and Geary Boulevard, and continuation of landscaping on the center islands of Van Ness Avenue from O'Farrell Street to Washington Street.

NEW EQUIPMENT

The Division received delivery of a multi-use one ton truck. It is equipped with a hydraulic lift tail gate useful for moving heavy planter boxes, drums, etc. An electric winch on the front end has been used frequently with very good results in removing unwanted tree stumps and heavy brush. The truck is also equipped with a personnel cab which has been useful in transporting the pruning crews as well as the "Flying Squad" to different work loations.

The Division also received a new and larger brush chipper replacing a nine year old unit. The brush chippers are a good investment, saving a great deal on hauling alone through the reduction of bulk resulting from pruning operations. The chipped material is used in soil mixes and in mulching the soil in landscaped areas.

PILOT TREES

During the last nine years, the Division has carried on a pilot tree program which has given much practical information on the type of trees best suited to the many varied climatic zones in San Francisco. Many new trees have been evaluated and are considered good prospects for the City. In addition to our local experiments, reports are regularly submitted to the Uiversity of California at Davis, California, for their use in a statewide evaluation program.

CITIZEN COOPERATION

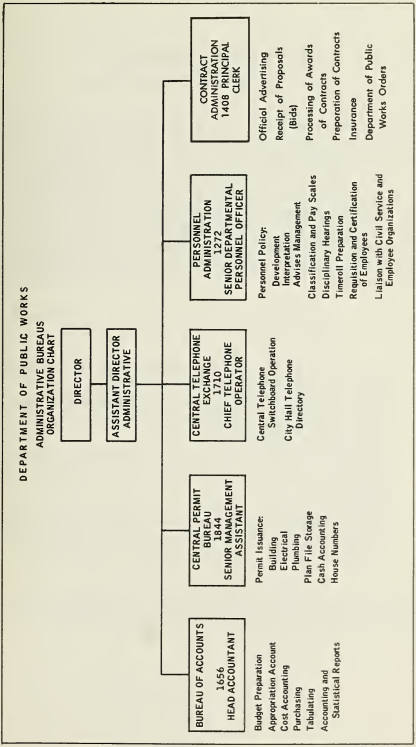
The fifth "Annual Plant A Tree Week" was conducted again in March in cooperation with the San Francisco Chamber of Commerce and received greater response from the public than in previous years. A number of these events were well publicized by the press, radio and television indicating that public sentiment is in favor of urban tree planting and landscaping. "Plant A Tree Week" was preceded by the Second Annual School Poster Contest. Art classes of Junior and Senior High Schools submitted entries for the contest using the theme "Beautify your City or Street by Planting Trees." Student's interest was far greater than the first year as more than 80 posters were chosen for final judging.

Following "Plant A Tree Week", the Second Annual Award Luncheon was hosted by the Schlitz Burgermeister Brewing Company. Twenty awards were given to either individuals or representatives of business firms for their assistance and cooperation in furthering the planting of trees on San Francisco streets.

The number of trees in San Francisco is regularly increasing through the efforts of many unselfish people who regularly and diligently encourage and support the volunteer tree planting program.

The program is supported by such groups as San Francisco Beautiful and the Chamber of Commerce as well as neighborhood improvement clubs, merchants' associations and legions of individual private citizens.

New 1 ton truck with personnel cab capable of carrying a minimum of six workmen plus equipment and material. This truck is equipped with hydraulic tail gate and electric winch.


DEPARTMENT OF PUBLIC WORKS
ADMINISTRATIVE BUREAUS
ORGANIZATION CHART
DIRECTOR
ASSISTANT DIRECTOR
ADMINISTRATIVE
BUREAU OF ACCOUNTS
1656
HEAD ACCOUNTANT
Budget Preparation
Appropriation Account
Cost Accounting
Purchasing
Tabulating
Accounting and
Statistical Reports
CENTRAL PERMIT
BUREAU
1844
SENIOR MANAGEMENT
ASSISTANT
Permit Issuance:
Building
Electrical
Plumbing
Plan File Storage
Cash Accounting
House Numbers
CENTRAL TELEPHONE
EXCHANGE
1710
CHIEF TELEPHONE
OPERATOR
Central Telephone
Switchboard Operation
City Hall Telephone
Directory
PERSONNEL
ADMINISTRATION
1272
SENIOR DEPARTMENTAL
PERSONNEL OFFICER
Personnel Policy:
Development
Interpretation
Advises Management
Classification and Pay Scales
Disciplinary Hearings
Timeroll Preparation
Requisition and Certification
of Employees
Liaison with Civil Service and
Employee Organizations
CONTRACT
ADMINISTRATION
1408 PRINCIPAL
CLERK
Official Advertising
Receipt of Proposals
(Bids)
Processing of Awards
of Contracts
Preparation of Contracts
Insurance
Department of Public
Works Orders

ADMINISTRATIVE BUREAUS

R. Brooks Larter, Assistant Director, Administrative

The administrative bureaus of the department devote their primary attention to the technical and legal aspects of governmental operations such as proper expenditure of public funds, proper procurement procedures, job classifications, interpretation of work rules, contract administration, deposit of funds, assembly of budget requests, accounting for funds, payrolls, timerolls, and the administrative services to the operating bureaus. These are intangible, yet necessary, functions of government, and it is the aim of the administrative staff to expedite and facilitate the work of the operating bureaus.

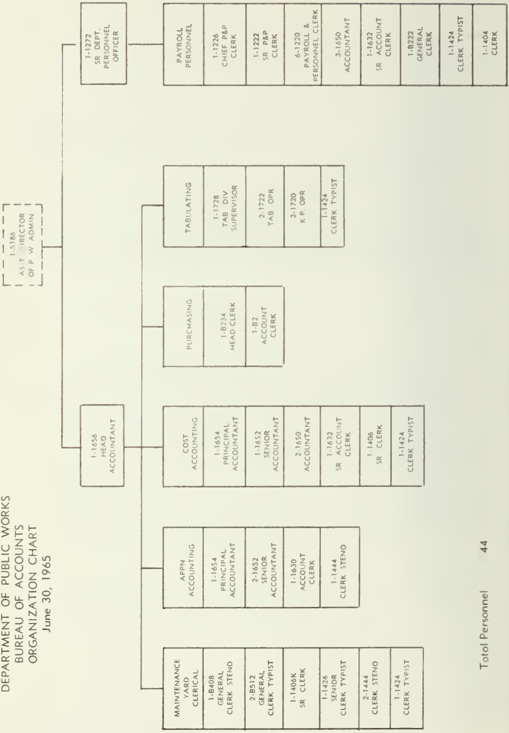
The important events of this year's operation may be outlined as follows:

1. The transfer of major accounting and personnel operation from the Army Street office to the City Hall area.
2. Final transfer of authority and responsibility for timerolls and personnel operation from the Bureau of Accounts to the Personnel Bureau.
3. Transfer of punched card operations from the Bureau of Accounts to the Controller's electronic data processing section.
4. Installation of the Centrex Telephone System in the City Hall on July 13, 1964 and the consolidation of telephone service to the administrative offices of the City and to the Courts on one central telephone switchboard.

Included in this section is an organization chart which has been revised to show the contract administration which is handled under the supervision of Harry Keller, 1408 Principal Clerk.

Each of the administrative bureaus has prepared a section for this report. In this connection, comment should be made on the very successful operation of the Centrex telephone switchboard under the capable supervision of Mrs. Beryl Johansen, 1710 Chief Telephone Operator. All of the anticipated advantages of Centrex as outlined in the Annual Report of June 30, 1964 have been realized, and orders have been issued to expand Centrex to include the Welfare Department on the Centrex system as of February1, 1966. Current statistics indicate that over 90% of the incoming telephone calls are now being dialed direct to the extension desired. This is far in excess of expectations.

During June 1965 we were able to provide telephone service to the United Nations for their twentieth anniversary observance. This was done by providing telephone service to the United Nations staff through Centrex. All concerned are agreed that it was an exceptionally successful operation.



DEPARTMENT OF PUBLIC WORKS
BUREAU OF ACCOUNTS
ORGANIZATION CHART
June 30, 1965

Total Personnel 44

BUREAU OF ACCOUNTS

J. Iwamoto, Head Accountant

FUNCTIONS AND ORGANIZATION

The operating functions of this Bureau embrace control of purchase order requisitions, sub-storeroom and inventories; automotive expenditures; work order job costs and invoicing; side sewer job deposits and refund accounts; refundable trust fund deposits, State gasoline tax subventions and bond fund accounts; capital improvement accounts for the General Fund, and Recreation and Park Department Fund; the cash revolving fund; the material stores revolving fund; budget preparation and controlling accounts; and the supplying of clerical service to all of the maintenance and operation bureaus.

At the beginning of the fiscal year this Bureau was organized as six divisions under the Head Accountant. They were Appropriation Accounting, Cost Accounting, Payroll-Personnel, Purchasing, Tabulating, and Clerical Services for M. & O. Bureaus. On February 9, 1965, the Payroll-Personnel Division was transferred from the Head Accountant to the Senior Departmental Personnel Officer. On March 2, 1965, the Tabulating Division was physically moved from 2323 Army Street to Rooms 65 and 162 City Hall and became a part of the Controller's Central E.D.P. Complex. On May 3, 1965, both the Appropriation Accounting Division and the Cost Accounting Division were split and those personnel serving the City Hall bureaus were moved from 2323 Army Street to Room 502 at 450 McAllister Street.

OPERATING BUDGET OF BUREAU

Purpose	Allowances 1963-64	1964-65	Expenditures 1963-64	1964-65
Permanent Salaries	204,244	212,333	196,085	208,989
Overtime	900	900	900	900
Holiday Pay	810	1,142	808	1,109
Contractual Services	21,124	21,037	20,366	14,199
Materials and Supplies	3,800	3,800	3,673	3,737
Equipment	5,285	945	4,897	926
Services of Other Departments	6,508	6,866	6,502	6,814
E. D. P. Temporary Salaries	9,586	10,732	9,586	10,732
Total	252,257	257,755	242,817	247,406

APPROPRIATION ACCOUNTING

This Division maintains accounts showing allowance, reserves, allotments, expenditures, encumbrances, and balances, for all funds under the control of this Department. These accounts form the basis of controlling all transactions to assure that funds are expended for the purpose for which they were appropriated.

In addition to maintaining all of the operating accounts, this Division handles the fiscal processing of formal contracts covering street improvements, sewers, sewage treatment plants, schools, hospitals, firehouses, recreation and park improvements, and numerous capital projects for other City Departments. When projects are completed from the Special Gas Tax Street Improvement Fund, final financial reports are prepared by this Division and forwarded to the State of California Department of Public Works, Division of Highways, in accordance with the provisions of the Streets and Highways Code.

The preparation and consolidation of the annual budget is a responsibility of this Division.

COST ACCOUNTING

This Division maintains accounts showing allowances, expenditures by type, encumbrances, and balances for all work orders received by this Department.

In addition, job costs are maintained for many aspects of the Department's operations such as cost of traffic painting, cost per mile of highway maintenance, cost of side sewer installations and cost of asphalt production. This Division compiles costs to repair damages to City property under the jurisdiction of this Department, and forwards a bill to the responsible party. These costs amounted to $83,951.00 for the Fiscal Year 1964-65 and embraced 475 cases covering damages to automotive equipment, street structures, bridges, street signs, traffic signs, street plantings, traffic signals, traffic devices, and damages to public buildings.

PAYROLL AND PERSONNEL

On February 9, 1965, this Division was transferred from the Head Accountant, Bureau of Accounts, to the Senior Departmental Personnel Officer, General Office, and is described elsewhere in this Annual Report.

PURCHASING

This Division is responsible for the supplying of equipment, materials, and supplies for the varied activities of this Department, the sub-storeroom and the material yard. During Fiscal Year 1964-65 this Division processed 6,721 requisitions for purchase orders and/or revolving fund orders in the total amount of approximately $1,383,444.11 involving 33,605 items. In addition, 6,220 delivery orders involving 24,880 items, 12,154 storeroom tags involving the delivery of 36,462 items, and 94 requisitions on the storekeeper involving 1,410 items were issued.

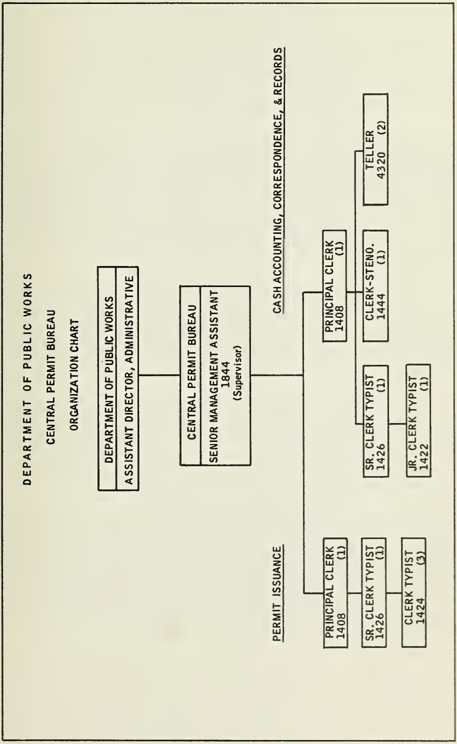
TABULATING DIVISION

This division with the use of IBM unit record equipment performs the job cost accounting for work orders. This entails the accumulation of labor costs, material costs, and computation of overhead for engineering, architecture, and building repair work orders.

Reports on street and parking signs, sidewalk widths, traffic accidents, and traffic painting are prepared for the Bureau of Traffic Engineering.

Other work performed by the Division includes the production of time cards for all per diem employees, maintenance of stores inventory, accounting and issuance of electrical sales permits and plumbers licenses, and preparation of the City and County Centrex telephone directory.

On March 2, 1965, the Tabulating Division of Public Works was transferred from the Maintenance Yard at Army Street to the City Hall, being consolidated with Central Tabulating Division. One month later, further consolidation was made with Retirement System and Health Service System. These consolidations were effected so as to provide joint use of equipment and personnel.



DEPARTMENT OF PUBLIC WORKS

CENTRAL PERMIT BUREAU

ORGANIZATION CHART

DEPARTMENT OF PUBLIC WORKS
ASSISTANT DIRECTOR, ADMINISTRATIVE
CENTRAL PERMIT BUREAU
SENIOR MANAGEMENT ASSISTANT 1844 (Supervisor)
PERMIT ISSUANCE
PRINCIPAL CLERK 1408 (1)
SR. CLERK TYPIST 1426 (1)
CLERK TYPIST 1424 (3)
CASH ACCOUNTING, CORRESPONDENCE, & RECORDS
PRINCIPAL CLERK 1408 (1)
SR. CLERK TYPIST 1426 (1)
JR. CLERK TYPIST 1422 (1)
CLERK-STENO. 1444 (1)
TELLER 4320 (2)

CENTRAL PERMIT BUREAU

Gilbert H. Boreman
Senior Management Assistant

FUNCTIONS

The principal function of the Central Permit Bureau is the issuance of all permits under the jurisdiction of the Department of Public Works, and the collection of appropriate permit fees and deposits. Included are permits covering each aspect of the erection, alteration, demolition and moving of buildings; permits for all types of billboards and signs; permits involving the use or excavations of streets and sidewalks; and all plumbing, gas appliance, and electrical permits.

It is the duty of the staff of the Central Permit Bureau to receive applications for the various types of permits, and route them to appropriate agencies for processing. When the applications are properly approved, the staff collects necessary fees and deposits, and issues the permits.

The Central Permit Bureau is the custodian of public records relevant to permits issued by the Department of Public Works, and of all plans and specifications approved in conjunction with those permits. These records date back to the 1906 Earthquake and are assuming more importance each year in determining the status of buildings affected by our urban renewal program.

Another service performed in this bureau is the assignment of street addresses to all new buildings and the elimination of possible confusion resulting from improper existing numbers. Our official house number records constitute an important source of information for government agencies, realtors, title insurance companies, and other activities concerned with the verification of correct street numbers for buildings.

It is a function of the Central Permit Bureau to receive payments for bills covering claims for damages to property under the jurisdiction of the Department of Public Works, and for costs in excess of deposits in the installation of side sewers. The monies collected from these bills, as well as all other monetary receipts of the Department of Public Works, are cleared through this bureau for deposit in the proper funds in the City Treasury.

PERSONNEL

The personnel of the Central Permit Bureau, as of June 30th, 1965, was as follows:

1	Senior Management Assistant
2	Principal Clerks
2	Senior Clerk Typists
1	Clerk Stenographer
2	Tellers
3	Clerk Typists
1	Junior Clerk Typist

THE FOLLOWING TABLES ILLUSTRATE THE SCOPE OF THE ACTIVITIES OF THE CENTRAL PERMIT BUREAU

TABLE I

PERMITS ISSUED AND FEES RECEIVED

	1964-1965		1963-1964	
	Permits	Fees	Permits	Fees
Buildings	13,510	$ 377,916	14,824	$ 403,993
Billboard	39	154	23	101
Demolition	540	5,295	563	5,232
Boiler Installation	165	1,222	243	1,867
Boiler Inspections	753	4,945	1,187	6,118
*Street Space	1,675	103,942	1,353	124,771
House Numbers	806	3,064	918	3,736
House Moving	29	740	29	600
Excavations (Pub. Util. etc.)	14,250	28,500	14,074	28,148
*Excavations (Other)	840	2,388	862	5,194
Flue Contr. Registrations	95	1,900	95	1,900
Flues-New Buildings	42	119	28	138
Flues-Old Buildings	133	628	132	431
Flues-New Buildings-Coupons	3,575	1,788	3,400	1,812
Flues-Old Buildings-Coupons	450	900	590	1,140
Posting Notices	759	1,886	806	2,056
Flower Markets	34	1,224	41	1,716
Advertising	5	673	8	1,446
Surveys	18	10,079	17	9,650
Engineering Inspections	80	23,137	47	16,590
Electrical Inspections	13,079	360,023	12,892	265,902
Sign Inspections	2,689	5,697	2,258	5,051
Electrical Sales	2,369	30,020	2,360	29,959
Plan Checking	8,107	131,012	8,152	154,837
Architect's Investigation	32	480	31	465
Garage Door Coupons	1,725	3,450	1,125	3,375
Hearings for Code Variances	16	160	10	100
Hearings for Substitute Materials	10	1,500	5	750
Plumbing Inspections	20,769	184,014	19,035	178,113
Gas Appliance Inspections	(Included in Plumbing Inspections)			
Journeyman Plumbers License	801	1,602	353	706
Gas Appliance Dealer	57	570	66	660
Residential Inspection Reports	24	1,695	12	595
Residential Record Reports	7,240	36,200	7,081	35,405
Dump Permits	9	655	9	450
Blasting Permits	6	72	4	48
TOTAL - TABLE I	94,731	$1,327,650	92,633	$1,293,055
TOTAL - TABLES II & III	2,721	$8,294,220	2,792	$7,327,558
GRAND TOTAL - PERMITS & REVENUE	97,452	$9,621,870	95,425	$8,620,613

* Permits and Fees only. See Table II for Refundable Deposits

TABLE II

MISCELLANEOUS DEPOSITS

	1964-1965		1963-1964	
	Permits	Deposits	Permits	Deposits
REFUNDABLE DEPOSITS				
Street Space	*	$ 32,160	*	$ 24,464
Sub-Sidewalk	57	57,060	42	44,821
Deposit on Plans	1,949	74,050	2,039	105,581
Excavations	*	809	*	991
House Move	-	-	1	100
TOTAL	2,006	164,079	2,082	175,965
PARTIALLY REFUNDABLE DEPOSITS				
Side Sewers	583	386,316	560	321,225
Excess Costs	51	7,389	60	8,811
AMOUNT REFUNDED		136,645		145,559
New Revenue to be Applied to Installation Costs		257,060		184,477
AGENCY DEPOSITS				
Street Improvement Bonds	81	9,388	90	11,539
TOTAL	2,721	$567,172	2,792	$517,540

* Street Space and Excavations require both a Fee and a Deposit. Amounts shown are Deposits only.

TABLE III

MISCELLANEOUS REVENUE

	1964-1965 Revenue	1963-1964 Revenue
General Fund	$ 489,353	$ 73,345
Road Fund	3,300,229	3,517,937
Highway Trust Fund	25,350	20,647
Special Gas Tax - Street Improvement Fund	3,904,292	3,195,798
1954 Sewer Bond Fund	-	1,000
Refundable Deposit - Side Sewer 912.3 Fund	1,300	1,099
Litter Control Fund	150	192
Candlestick Park Fund	134	-
Civic Auditorium Bond Fund	6,240	-
TOTAL	$7,727,048	$6,810,018

TABLE IV

STATEMENT OF CONDITION SPECIAL FUNDS AS OF JUNE 30, 1965

	Balance June 30, 1964	Deposits 1964-1965	Refunds 1964-1965	Balance June 30, 1965
Special Permit Fund (Street Space and Sub-Sidewalk Deposits)	$154,756.00	$89,220.00	$54,160.00	$189,816.00
Street Improvement Fund (Payments of Street Improvement Bonds)	465.27	-	-	465.27
Excavation Fund	2,430.80	808.80	1,194.80	2,044.80
Deposits on Plans	32,542.50	74,050.00	88,885.00	17,707.50
House Moving	100.00	-	100.00	-

CORRELATION-BUILDING PERMITS AND FEES

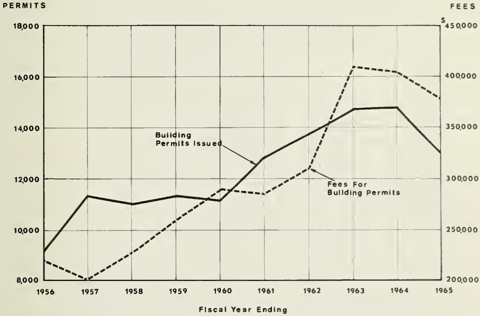
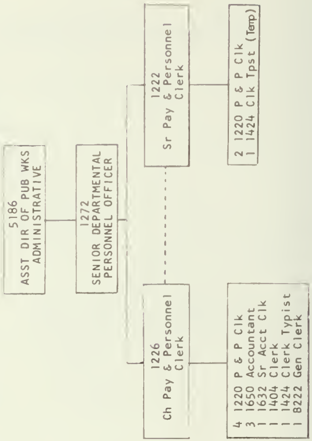


FIGURE I

ORGANIZATION CHART
BUREAU OF PERSONNEL ADMINISTRATION
DEPARTMENT OF PUBLIC WORKS



BUREAU OF PERSONNEL ADMINISTRATION

Albert C. Ambrose
Senior Departmental Personnel Officer

With the establishment of the position of Senior Departmental Personnel Officer, and the appointment of Mr. Albert C. Ambrose to this position in December 1963, the department's personnel functions have virtually achieved bureau status, known as the Bureau of Personnel Administration with the following employments:

1 1272 Sr. Departmental Personnel Officer
1 1226 Chief Payroll and Personnel Clerk
1 1222 Sr. Payroll and Personnel Clerk
6 1220 Payroll and Personnel Clerk
3 1650 Accountant
1 1632 Sr. Account Clerk
1 1424 Clerk Typist
1 1404 Clerk
1 B222 General Clerk
1 1424 Clerk Typist (temporary)

The department has since issued and is currently following a Uniform Disciplinary Procedure and a Uniform Leave Procedure. The Personnel Bureau has also compiled a Procedure for Dismissal Hearing, which covers the steps required to arrange for a dismissal hearing and a procedural guide to the actual conduct of such a hearing. This Procedure has been reviewed by the staff of the Civil Service Commission with a view toward the incorporation of those parts that can be followed by all City departments into a general disciplinary procedure the Commission may promulgate for the City service in the future. The department's booklet, "To New Employees," has also been revised, brought up to date, and reissued, and is being used to welcome and orient employees new to the department.

During the fiscal year, the bureau prepared and processed a total of 1545 timerolls involving an expenditure of $14,666,286.26. Included in this payroll expenditure is a substantial amount for temporary employees. There was a total of 291 requisitions for permanent civil service employees to replace vacancies due to deaths. resignations, transfers, retirements, dismissals, etc. In addition, there were 515 requisitions for temporary civil service employment due to vacations, sick leave, personal leave, reclassifications, extra work, etc. Because of the difficulty of obtaining employees from civil service lists of eligibles, it was necessary to employ 899 NSC employees for these authorized positions. There were 3139 incidents of reports to the department physician of new cases of illness to verify legitimacy of sick pay as required by ordinance. There were also 244 accident reports filed with the necessary follow-up procedure required which are not included in the reports to the department physician.

During the last half of the fiscal year, it became readily apparent that the trend in collective bargaining negotiations and agreements between craft unions and private employers or employer associations is to include provision for a workday of less than eight hours. After much thought and consideration within the department, and after many discussions on the subject with the Chief Administrative Officer, officials of craft unions, employee association representatives, and the staff of the Civil Service Commission, the department issued a memorandum on June 11, 1965 to the effect that, effective July 1, 1965, hours of work for craft employees in the department will conform to those hours agreed upon and made a part of bona fide collective bargaining agreements, with the only proviso that this policy would be effective when such action would not adversely affect current craft employees in terms of gross annual income. In this respect, the department was a leader in a policy that has since been adopted by several other City departments whose staffs include craft personnel.

APPENDIX I

BUREAU OF ENGINEERING CURRENT CONTRACT DATA SUMMARY

Showing All Contract Work Awarded or Underway

July 1, 1964 - June 30, 1965

Table	Type of Construction	Contracts Awarded No.	Contracts Awarded Aggregate Value	Amount Expended Fiscal Year 1964 - 1965
A	Major Thoroughfares	3	$ 557,468.24	$ 849,534.69
B-1	Streets - Private Contracts	11	167,200.00	110,470.00
B-2	Streets - Assessment Proceedings	13	434,104.45	185,998.25
B-3	Streets - Public Contract City Pay	9	323,459.81	280,084.50
C	Traffic Signals and Channelization	10	365,221.06	258,761.31
D-1	Sewers - Vitrified Clay and Concrete	12	607,542.94	241,468.94
D-2	Sewers - Concrete Monolithic	3	1,061,834.00	1,062,614.39
E	Recreation-Park	21	686,686.25	1,758,510.83
F	Miscellaneous	27	1,190,270.08	1,483,559.25
G	Informal Contracts	8	8,152.00	8,147.00
	TOTALS	117	$5,401,938.83	$6,239,149.16

APPENDIX I

BUREAU OF ENGINEERING CURRENT CONTRACT DATA SUMMARY

On the following pages appear separate tables of Current Contracts for each of the types of construction listed above. The source of the funds used to finance each project is indicated in the Tables according to the following:

Abbreviation Legend

Legend	Description of Fund
GEN	General Fund City and County
SRd	Special Road Improvement Fund
MS	Special Gas Tax Improvement Fund
AP	Assessed to Property Benefiting Under Street Improvement Ordinance of 1934
PPO	Cost Borne by Property Owners Under Private Contract
44SB	Bond Issue Voted by Citizens on November 7, 1944 - $12,000,000
48STB	Bond Issue Voted by Citizens on June 1, 1948 - $15,000,000
54SB	Bond Issue Voted by Citizens on June 8, 1954 - $12,645,000
60SB	Bond Issue Voted by Citizens on November 8, 1960 - $12,500,000
47OSP	Bond Issue Voted by Citizens on November 4, 1947 - $5,000,000
54LHB	Bond Issue Voted by Citizens on November 2, 1954 - $5,475,000
55RP	Bond Issue Voted by Citizens on November 8, 1955 - $7,248,000

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 A - MAJOR THOROUGHFARES

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETION DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
Evans Avenue (Reconstr. & Constr. R.R. Bridge) M & K Corporation	8-29-62	8-14-64	$921,530.35	$104,600.35	MS 44SB
Great Highway Extension Sloat Blvd. to Skyline (Construction) Bragato Paving Company	6-12-64	4-28-65	332,556.10	332,556.10	SRd MS
Bush Street Widening Van Ness Ave. to Kearny St. (Reconstruction) The Fay Improvement Company	6-10-64	98%	203,461.00	173,610.00	SRd MS
Sutter Street and Other Streets (Street Resurfacing) The Lowrie Paving Co., Inc.	8-11-64	2-26-65	88,018.24	88,018.24	SRd
Geneva Avenue Widening Alemany Blvd. to San Jose Ave. (Reconstruction) O.C. Jones & Sons	8-30-64	35%	250,297.00	77,490.00	SRd 60SB
Bosworth Street Widening Lyell St. to Lippard Ave. - Cont. #1 The Lowrie Paving Co., Inc.	1-5-65	37%	219,153.00	73,260.00	SRd MS 60SB
Total Awarded and Expended During Fiscal Year			$557,468.24	$849,534.69	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 B-1 STREETS - PRIVATE CONTRACTS PAID BY PROPERTY OWNERS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
14th Avenue - 100' - 400' N. Rivera A. Malerbi Sand	Gr	8-14-59	0%	$ 5,000.00
Sunnydale Green Subdivision & Schwerin Street. Eichler Homes, Inc.	C-P-Ltg	9-21-62	12-1-64	91,000.00
Mendosa Avenue - N/E'ly 30' ± S & Q Construction Company	S	8-28-63	7-15-64	600.00
Lobos Street & Caine Avenue Frank Construction Company	Gr-S-P	11-1-63	8-31-64	19,500.00
Ingerson Avenue - Coronado St. to Griffith St. Thompson & Wallace	S	1-15-64		2,800.00
Mendosa Avenue & Gateview Court Alameda Homes Corporation	Gr-P	5-22-64	7-15-64	5,000.00
		- - - -		- - - - - -
*Dartmouth St. E½ - Mansell St. to 75' ± S'ly The Fay Improvement Company	Gr-S-C-P	8-26-64	5-6-65	4,000.00
Gates Street W½ - Btw. 200' - 250' S'ly Crescent L. Thompson	Gr-S-C-P	9-23-64	10%	1,500.00
Egbert Avenue - S/W Portion - Hawes & 75' N'ly B. Ghezza	Gr-S-C-P	10-7-64	3-15-65	3,000.00
Rio Verde Street - Velasco Ave. & S.F.,S.M. Co. Line Nibbi Bros.	Gr-S-C-P	10-21-64	4-15-65	3,700.00
Ingerson Avenue - Coronado & Griffith Sts. S/W SW M.L. Morris	S	10-30-64	12-15-65	2,000.00

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965

B-1 STREETS - PRIVATE
CONTRACTS PAID BY
PROPERTY OWNERS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Mount Sutro Woods Subdivision No. 1 Sutro Forest Develop. Co.	S & Dr	12-2-64	25%	$ 6,000.00
Myra Glen Subdivision Tuck Investment Company	S & Dr	12-16-64	90%	15,000.00
Dolores Heights Plaza Subdivision F.P. Lathrop	S & Dr	1-20-65	0%	7,500.00
Griffith Street - Palou - Shafter (Portion) Pacific Pavements Co., Ltd.	Gr-C-P-S	2-10-65	80%	10,500.00
Myra Glen Subdivision The Lowrie Paving Co., Inc.	S-C-P-SW	3-24-65	50%	107,000.00
Schwerin Street - Garrison St. - 260' N The Fay Improvement Company	S	5-5-65	6-15-65	7,000.00
Total Awarded During Fiscal Year				$167,200.00
Total Value of Work Done During Fiscal Year				$110,470.00

*Remaining Portion Improved Under Public Contract

S = Sewers
Gr = Grading
C = Curbs
P = Paving
SW = Sidewalk
Ltg = Lighting
Dr = Drainage

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 B-2 STREET ASSESSMENT PROCEEDINGS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Ogden Avenue - Banks St. - Folsom St. O.C. Jones & Sons	Gr-C-P	5-1-64	7-13-64	$ 3,482.40 (1,828.28)
Ingerson Ave., Gilroy St., Ignacio Ave. - Griffith St. U. Peira & Son	Gr-S-P-SW	5-1-64	1-1-65	34,170.65 (18,111.56)
	- - - - -	- - - -		- - - - - -
Harkness Avenue - Sparta & Goettingen Sts. B. Fontana Sons	Gr-S-P	8-14-64	6-15-65	28,134.00 (17,500.00)
Ingalls Street - Armstrong & Carroll Sts. Pacific Pavements Co., Ltd.	Gr-S-P	8-14-64	12-17-64	15,151.99 (227.32)
Tompkins Avenue - Nevada & Putnam Sts. J. Kaplan	Strwy-Lgth	12-4-64	5-21-65	15,118.35 (7,559.18)
Bowdoin Street - S of Mansell St. The Fay Improvement Company	Gr-S-C-P	12-11-64	5-17-65	13,802.58 (7,865.08)
Griffith Street - Palou & Shafter Aves. Baldwin Warren Company, Inc.	Gr-S-C-P-SW	12-11-64	78%	23,094.50 (1,000.00)
24th, Michigan & 25th Streets (Portions) Baldwin Warren Company, Inc.	Gr-C-P-S-SW	1-27-65	78%	64,632.00 (9,000.00)
Elsie Street - Virginia Ave. & Esmeralda Ave. Cliff. W. Greer	Gr-S-C-P-Wall	4-16-65	0%	52,653.50 (44,500.00)

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 B-2 STREET ASSESSMENT PROCEEDINGS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Gennessee Street - Mangels Ave. & Melrose Ave. The Fay Improvement Company	Gr-S-C-P	4-16-65	58%	$ 18,087.60 (15,500.00)
Castro Street - 28th St. to Duncan St. The Fay Improvement Company	Gr-S-C-P St	5-7-65	0%	20,377.30 (15,000.00)
Crestmont Drive - Vicinity of Oakhurst Lane Baldwin Warren Company, Inc.	G-S-C-P-SW	5-21-65	0%	66,598.10 (54,500.00)
Ripley Street - Peralta Ave. - Alabama St. Annuzzi Concrete Service	G-S-C-P-SW	5-28-65	0%	26,656.00 (14,150.00)
Yosemite Avenue - Ingalls St. & 175' E The Fay Improvement Company	Gr-S-C-P	6-2-65	0%	20,976.18 (5,000.00)
Illinois Street - 23rd - 25th Sts. McGuire & Hester	Gr-S-C-P-SW	6-2-65	0%	68,822.35 (33,822.35)
Total Awarded During Fiscal Year				$434,104.45
Total Value of Work Done During Fiscal Year				$185,998.25

( ) = Estimated or Final Amount of City Obligation.
Balance Through Assessment of Property Benefited.
City Funds From Special Road Improvement Fund.

Gr = Grading
S = Sewers
C = Curbs
P = Pavements
SW = Sidewalks

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 B-3 STREETS - PUBLIC
CONTRACT - CITY PAY

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
Vallejo Street Betw. Powell & Mason Sts. (Pvt. Reconstr. & Sewer Repl.) The Fay Improvement Company	3-27-64	7-10-64	$ 28,657.89	$ 5,887.89	SRd 60SB
Western Addition Redevelopment Area A-1 (Pvt. Reconstr.) The Lowrie Paving Co., Inc.	4-29-64	9-14-64	96,594.10	79,494.10	SRd
	- - - -		- - - - - -		
Dartmouth Street W'ly ½ S Mansell St. (Pvt. Reconstr.) The Fay Improvement Company	8-14-64	5-6-65	3,580.55	3,580.55	SRd
Waller Street Laguna to Octavia Sts. (Pvt. Reconstr. & Sewer Repl.) The Lowrie Paving Co., Inc.	8-21-64	1-12-65	28,496.23	28,496.23	SRd 60SB
Redevelopment Area E-1 Streets Contract "B" (St. Reconstr.) The Lowrie Paving Co., Inc.	10-9-64	6-28-65	61,488.84	61,488.84	SRd
Pine Street Grant Ave. to Stockton St. (Pvt. Reconstr.) Baldwin Warren Co., Inc.	10-30-64	3-10-65	22,978.73	22,978.73	MS
Cabrillo Street & Other Streets (St. Resurfacing) The Fay Improvement Company	12-23-64	5-12-65	50,727.43	50,727.43	SRd
14th Street Folsom to Harrison Sts. (Pvt. Reconstr.) The Lowrie Paving Co., Inc.	2-5-65	4-28-65	27,430.73	27,430.73	SRd
Seacliff Avenue & Other Streets (St. Resurfacing)	4-21-65	20%	71,040.80	0	SRd

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 B-3 STREETS - PUBLIC
CONTRACT - CITY PAY

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
Jackson Street and Mason Street (Brick Pavement Replacement) U. Peira & Son	5-14-65	5%	$ 12,936.00	$ 0	SRd
Clayton Street Betw. Carmel St. & Corbett Ave. (Tie Removal & Pvt. Reconstr.) U. Peira & Son	6-11-65	0%	44,780.50	0	SRd
Total Awarded and Expended During Fiscal Year			$323,459.81	$280,084.50	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 C - TRAFFIC SIGNALS
AND CHANNELIZATION

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
Franklin and Gough Streets (Traffic Signal Installation) Emsco Electric Corp.	6-12-64	11-20-64	$ 42,381.60	$ 42,381.60	MS SRd
Isolated Crossings Contract 20B (Traffic Signals - Safety Light) Emsco Electric Corp.	7-17-64	2-3-65	28,724.62	28,724.62	GEN
Lake Merced Boulevard at County Line (Channel. & Safety Light) Baldwin Warren Co., Inc.	9-30-64	4-5-65	77,585.09	77,585.09	MS
Ocean Avenue at Various Locations (Traffic Signals) R. Flatland Company	11-23-64	36%	28,950.00	9,450.00	MS
Various Locations Contract No. 5 (Traffic Signals) Steiny & Mitchel, Inc.	12-23-64	85%	32,879.00	24,210.00	MS SRd
Sunset Boulevard Judah St. to Ocean Ave. (Traffic Signals) R. Flatland Company	1-22-65	90%	48,690.00	37,890.00	SRd
Various Railroad Crossings (Traffic Signals) Steiny & Mitchel, Inc.	2-17-65	65%	30,000.00	16,650.00	GEN
Traffic Signals Various Intersections (Installation of) Emsco Electric Corp.	3-3-65	25%	8,175.95	1,440.00	SRd
Western Addition Area (St. Lighting & Traffic Sigs.) R. Flatland Company	3-10-65	29%	78,355.00	20,430.00	SRd GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 C - TRAFFIC SIGNALS AND CHANNELIZATION

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
Seventh Avenue Lawton St. to Lincoln Way (Traffic Signals) Steiny & Mitchel, Inc.	5-21-65	0%	$ 23,968.00	$ 0	MS SRd
Signals at School Crossings Contracts 1 & 2A Emsco Electric Corp.	6-2-65	0%	7,893.40	0	SRd
Total Awarded or Expended During Fiscal Year			$365,221.06	$258,761.31	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 D-1 SEWERS - PIPE - VITRIFIED CLAY AND CONCRETE

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
19th Avenue at S.F. State College (Sewer Construction) Mitchell Plumbing Company	4-29-64	9-15-64	$ 21,235.00	$ 21,235.00	54SB
Department of Electricity Maintenance Yard (Sewer Replacement) Associated Pipeline, Inc.	9-11-64	12-16-64	6,203.00	6,203.00	60SB
Shotwell Street 19th St. to 20th St. (Sewer Replacement) McGuire & Hester	10-21-64	2-2-65	22,796.34	22,796.34	60SB
Fort Funston (Sewerage Outlet Facil.) A.C. Bashnick Engr. Co.	12-2-64	2-18-65	7,295.00	7,295.00	60SB
Irving Street 46th Ave. to 48th Ave. (Sewer Replacement) A. Burtleson Constr. Co.	1-15-65	5-4-65	24,829.40	24,829.40	60SB
27th Street Noe to Sanchez Sts. (Sewer Replacement) Baldwin Warren Co., Inc.	2-10-65	6-8-65	27,800.20	27,800.20	60SB
Dolores Street 15th to 16th Sts. (Sewer Replacement) McGuire & Hester	2-19-65	99%	26,130.00	22,500.00	60SB
Cortland Avenue Folsom to Nevada Sts. (Sewer Replacement) Baldwin Warren Co., Inc.	3-26-65	90%	44,246.00	37,080.00	60SB
South Hill Boulevard Geneva Ave. (Sewer Constr.) M & K Corporation	4-7-65	8%	375,497.00	34,470.00	60SB

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 D-1 SEWERS - PIPE - VITRIFIED CLAY AND CONCRETE

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
McAllister Street Octavia to Gough Sts. (Sewer Replacement) A. Burtleson Constr. Co.	4-28-65	95%	$ 26,027.00	$ 21,150.00	60SB
North Point Street Divisadero St. to Scott St. (Sewer Replacement) The Fay Improvement Company	4-30-65	90%	18,986.00	16,110.00	60SB
Divisadero Street Washington to Clay Sts. (Sewer Replacement) Baldwin Warren Co., Inc.	5-7-65	30%	18,867.00	0	60SB
Cayuga Avenue Betw. Ottawa & Niagara Aves. (Drain) Baldwin Warren Co., Inc.	5-21-65	0%	8,866.00	0	SRd
Total Awarded and Expended During Fiscal Year			$607,542.94	$241,468.94	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 D-2 SEWERS - CONCRETE MONOLITHIC

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
N.P.C.S. Sect. B-3A Drumm St. (Pumping Station) S & Q Construction Co.	11-21-62	1-8-65	$492,074.47	$188,504.47	54SB
Lake Merced Sewage Pumping Station (Construct) Fullerton Constr. Co.	1-16-63	5-1-64	236,300.00	27,500.00	60SB
N.P.C.S. Sect. B-3B (Sewer Construction) Washington St. - Embarcadero to Davis Drumm St. - Commercial to Washington Walter Lenkeit	9-11-63	12-17-64	294,504.20	152,394.20	54SB 60SB
Redevelopment Project Area E-1 (G. Gateway) (Sewers - Clay, Battery & Front Sts.) M & K Corporation	10-2-63	9-28-64	358,245.72	98,595.72	54SB
	- - - -		- - - - - -		
Franklin - Bay Sewer System Sec. B (66" & 72" Rein. Conc. Pipe) M.J. Lynch	7-3-64	99%	131,100.00	117,900.00	60SB
Cayuga Avenue Auxiliary Sewer Cont. #1 (Constr.) McGuire & Hester	10-28-64	43%	588,389.00	225,990.00	60SB
Cayuga Avenue Auxiliary Sewer Cont. #2 (Constr.) McGuire & Hester	12-23-64	90%	342,345.00	251,730.00	60SB
Total Awarded and Expended During Fiscal Year			$1,061,834.00	$1,062,614.39	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
McLaren Park (Impr.) 425/5265 Piombo Construction Co.	5-15-63	7-15-64	$335,514.43	$ 39,594.43	55RP
S.F. Zoological Gardens Orangutan Grotto DeNarde Construction Co.	9-13-63	6-10-64	122,947.30	12,337.30	GEN
Marina Small Craft Harbor (Dem., Exc., Fill, Brk. Wt., Etc.) Peter Kiewit Sons Co.	11-22-63	83%	570,231.00	401,580.00	GEN
Marina Small Craft Harbor (Floats, Gangway, Pilings, Etc.) Duncanson-Harrelson Co.	11-22-63	72%	586,932.00	380,790.00	GEN
Hamilton Annex Recreation Area Phase I Gravelle & McConnell, Inc.	2-5-64	5-6-65	115,112.81	115,112.81	GEN
Sharp Park Golf Course (Rdwy. Reloc., Fairway, Tee & Green) Gravelle & McConnell, Inc.	2-14-64	10-3-64	196,104.76	87,564.76	GEN
Resurfacing Paths & Playgrounds The Fay Improvement Company	4-3-64	11-12-64	45,069.73	27,339.73	GEN
S.F. Zoological Gardens (Zoo Alarm System) Electr. Constr. & Sales Co.	4-29-64	7-30-64	11,238.00	11,238.00	GEN
Sutro Heights Park (Gunite West Slope) Johnson Western Gunite Co.	4-29-64	7-20-64	21,240.71	21,240.71	Budget
Sharp Park Golf Course (Lagoon Channel Pipe Arch) Gravelle & McConnell, Inc.	4-29-64	8-18-64	1,787.00	1,787.00	Budget
S.F. Zoo (Cages & Paddock Fencing) Gerrell Enterp.	5-22-64	8-31-64	4,757.00	4,757.00	Budget

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
S.F. Zoo (Roads & Paths) Pacific Pavements Co., Ltd.	5-22-64	8-21-64	$ 6,638.84	$ 6,638.84	Budget
Rossi & Hamilton Swimming Pools (Patching & Painting) Robert L. Sage	5-27-64	11-13-64	7,434.00	7,434.00	Budget
McLaren Park Playground & Maintenance Yard (Construct) Martinelli Const. Co., Inc.	6-19-64	51%	195,100.00	90,270.00	55RP
Light Fixtures at 5 Locations Grandi Electric Co.	6-19-64	12-4-64	18,895.00	18,895.00	55RP
	- - - -		- - - - - -		
S.F. Zoo Pachyderm Bldg. (Auto. Fire Sprinklers) Appr. Auto. Sprinkler	7-3-64	11-20-64	3,069.00	3,069.00	GEN
McLaren Park Visitacion Ave. & Hahn St. (Constr. Club House & Playground) Lakehurst Constr. Co.	7-10-64	96%	175,400.00	152,460.00	55RP
S.F. Zoo - Siamang Cage (Fabric Replacement) Oakland Fence Co.	7-10-64	11-5-64	2,056.00	2,056.00	GEN
Balboa Park (Backstop, Fencing, Bleachers, Waterline) Lakehurst Constr. Co.	7-10-64	12-24-64	6,045.00	6,045.00	GEN
Fleishhacker Playfield (Grading & Paving) The Lowrie Paving Co., Inc.	7-15-64	12-8-64	21,526.00	21,526.00	GEN
Funston Playground (Painting Floodlight Poles) Robert Thompson, Inc.	7-24-64	4-8-65	1,997.00	1,997.00	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
Angelo J. Rossi Rec. Center (Modif. Pool Re-circulation Sys.) Don Kane Company	8-5-64	1-2-65	$ 4,458.00	$ 4,458.00	GEN
Strybing Arboretum - G.G. Park (Sunset Magazine Demo.) Cagwin & Dorward	10-2-64	5-4-65	50,167.00	50,167.00	GEN
McLaren Park (Water Distribution Sys.) Associated Pipeline, Inc.	10-16-64	85%	254,100.00	198,810.00	55RP
Corona Heights Jr. Museum (Ext. Parking Area)	10-30-64	3-23-65	12,729.90	12,729.90	GEN
Golden Gate Park Merry-Go-Round Enclosure Wilco Construction Co.	2-17-65	45%	29,109.00	12,510.00	GEN
Buena Vista Park (Repl. Irrig. Line) R.B. McNair & Sons	3-4-65	5-28-65	3,323.35	3,323.35	GEN
Sealing of Gymnasium Floors at Various Locations E.G. Finn Hardwood Fl. Co.	3-4-65	82%	6,337.00	4,680.00	GEN
Golden Gate Park Sharon Bldg. (Rehab. Hot Water Heating Sys.) Bradley Plumbing & Heating	3-4-65	6-25-65	4,100.00	4,100.00	GEN
Asphaltic Concrete Resurfacing at Six Locations (Asphaltic Concreting) The Lowrie Paving Co., Inc.	4-2-65	90%	40,572.00	32,400.00	GEN
Playground Courts - 5 Loc. (Resurfacing) Malott & Peterson-Grundy	4-14-65	90%	24,787.00	20,160.00	GEN
Mountain Lake Park (Water Supply Piping) Mitchell Plumbing Co.	4-14-65	0%	2,759.00	0	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 E - RECREATION AND PARK

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
Gymnasium Floors Various Locations (Sealing) E.G. Finn Hardwood Fl. Co.	4-14-65	60%	$ 2,647.00	$ 1,440.00	GEN
Joseph Lee Gymnasium (Light Fixture Hangers) Ets-Hokin & Galvan	5-21-65	0%	3,945.00	0	GEN
S.F. Zoo Aviary (Repair & Paint) Gores Tank Company	5-21-65	0%	11,850.00	0	GEN
Golden Gate Park (Asphaltic Conc. Resurfacing) The Lowrie Paving Co., Inc.	6-4-65	0%	25,709.00	0	GEN
Total Awarded and Expended During Fiscal Year			$686,686.25	$1,758,510.83	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 F-1 MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
City Hall Roof Flood Lights (Repl. Switchgear & Lighting) Pratt Electrical Co.	7-19-63	12-22-64	$ 5,895.00	$ 1,665.00	GEN
R.S.S.T.P. (Alt. of Sludge Digestion Facility) C. Norman Peterson Co.	8-9-63	1-22-65	108,849.21	28,299.21	60SB
Auxiliary Fire Alarm Systems for Various Schools (Contract #2) Ets-Hokin & Galvan	10-23-63	7-31-64	9,498.00	1,848.00	1956 School Bond
Gilman Avenue Griffith St. to Hunters Pt. (Expressway Landscaping) Sacramento Landscapers,Inc.	10-30-63	7-29-64	13,516.50	3,886.50	SRd
S.E.S.T.P. (Sludge Dewatering System) C. Norman Peterson Co.	12-20-63	12-4-64	49,169.00	33,869.00	60SB
R.S.S.T.P. (Modif. to Water Supply System) C. Norman Peterson Co.	12-27-63	10-13-64	45,407.30	14,267.30	60SB
Eureka Valley Public Parking Facility (Castro St. - 17th to 18th) O.C. Jones & Sons	2-5-64	7-25-64	16,691.00	2,741.00	GEN
Washington Street Maple to Locust Sts. (St. Lt. & Fire Alarm) Steiny & Mitchel, Inc.	3-6-64	3-2-65	12,124.00	12,124.00	SRd
City Hall Treas. & Tax Collector Offices (Alarm Systems) Herman Safe Company	3-6-64	8-28-64	8,635.00	8,635.00	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 F-1 MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
S.E.S.T.P. (Sludge Dig. Fac. & Tank #7) Mitchell Plumbing Co.	3-6-64	99%	$ 57,497.00	$ 31,050.00	60SB
S.E.S.T.P. (Reconstr. Grit Screening) C. Norman Peterson Co.	3-20-64	5-26-65	296,164.30	253,594.30	60SB
Geary Boulevard Public Parking Facility (Parking Lot) The Lowrie Paving Co.,Inc.	3-20-64	8-23-64	12,061.00	1,441.00	GEN
Outer Irving Street Public Parking Facility (Parking Lot) O.C. Jones & Sons	3-27-64	9-19-64	12,943.00	5,383.00	GEN
R.S.S.T.P. (Sunset Pump Sta. Modif.) Fred J.Early,Jr.,Co.,Inc.	4-8-64	99%	243,470.00	219,150.00	60SB
Van Ness Avenue McAllister to O'Farrell Sts. (Center Island Landscaping) R.B. Gregory	4-20-64	11-5-64	13,400.82	6,020.82	SRd
Candlestick Park Stadium (Painting 2 Lt. Towers) D.E. Burgess Company	5-6-64	8-25-64	4,920.00	4,920.00	GEN
Sidewalks at Various Locations (Constr.) Annuzzi Concrete Service	5-6-64	7-29-64	5,947.00	5,947.00	GEN
Tenth Avenue South Quintara St. (Retaining Wall Ext.) Love & Haun	5-15-64	8-24-64	3,480.00	3,480.00	SRd
Fourth Street Bridge (Str. Repair) Baldwin,Erickson & Tait	6-3-64	99%	104,883.00	100,170.00	MS SRd

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 F-1 MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
S.E.S.T.P. (Repair & Paint - Water Tank & Struct.) Gores Tank & Steeplejack Company	6-12-64	11-24-64	$ 8,500.00	$ 8,500.00	GEN
Twin Peaks Boulevard Near Portola Drive (Retaining Wall & Slope Stab.) Annuzzi Concrete Service	6-17-64	1-4-65	10,947.00	10,947.00	SRd
West Portal Public Parking Facility (Constr. Parking Lot) The Lowrie Paving Co.,Inc.	6-17-64	9-30-64	11,442.00	11,442.00	GEN
S.E.S.T.P. (Sludge & Scum Handling Alt.) C. Norman Peterson Co.	6-24-64	99%	348,732.00	332,550.00	60SB
Telegraph Hill St. Lighting & Fire Alarm Fac. (Underground Dist. #169 - Stages #2 & #3) Abbett Electric Corp.	6-26-64	90%	19,876.00	13,500.00	SRd
Log Cabin Ranch School La Honda (Access Road Widening) F.F. & M. Co.	7-1-64	11-4-64	28,295.95	28,295.95	GEN
San Jose Avenue Pedestrian Overpass (Constr.) Martinelli Const.Co.,Inc.	7-3-64	3-22-65	71,006.64	71,006.64	MS
Noe Valley Public Parking Facility (Constr.) The Lowrie Paving Co.,Inc.	7-17-64	10-28-64	10,280.00	10,280.00	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 F-1 MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
Sloat Boulevard St. Francis Cir. to 39th Ave. (Irrigation Sys. (Replace.) Christner Plumbing Co.,Inc.	8-7-64	3-2-65	$ 43,414.24	$ 43,414.24	SRd
Candlestick Park Stadium (2nd Contract) (Painting Light Towers) Medallion Painting Co.	9-4-64	2-26-65	15,700.00	15,700.00	GEN
Francisco Heights Undergr'd Dist. No. 167 (St. Light & Fire Alarm Facil.) R. Flatland Co.	9-11-64	4-2-65	14,918.67	14,918.67	SRd
Brooks Hall High Pressure Steam Line (Constr.) Mitchell Plumbing Co.	9-11-64	12-23-64	2,690.00	2,690.00	GEN
Redevelopment Project Area E-1 (Sidewalk Constr.) The Fay Improvement Co.	9-11-64	2-26-65	36,973.98	36,973.98	SRd
Various Sewage Pumping Stations (Overflow Alarms) Elec. Constr. & Sales Co.	10-14-64	99%	19,543.00	17,100.00	60SB
Civic Auditorium (Sidewalk Reconst.) Annuzzi Concrete Service	10-16-64	85%	22,072.50	18,450.00	SRd
McLaren Park (Erosion Prevention Work) Associated Pipeline, Inc.	10-16-64	2-3-65	4,445.60	4,445.60	SRd
Mission District Public Parking Facility (Constr.) The Lowrie Paving Co.,Inc.	11-13-64	2-5-65	25,167.90	25,167.90	GEN
University Street So. Dwight St. (Restoration of Slope) Baldwin Warren Co., Inc.	12-11-64	4-23-65	5,598.00	5,598.00	SRd

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 F-1 MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
Turk-Taylor-Sixth St. Sewer (Test Borings) P & Z Company	12-18-64	3-4-65	$ 4,998.35	$ 4,998.35	60SB
Third Street Bridge at Channel St. (Mechanical Modifications) O.B.CO. Cont. & Engr.	12-23-64	0%	25,600.00	0	MS
Fourth St. Pumping Stations (Misc. Mech. & Elec. Alterations)	12-23-64	90%	7,478.00	5,580.00	60SB
Portola District Public Parking Facility (Constr.) The Lowrie Paving Co.,Inc.	12-30-64	4-1-65	9,503.00	9.503.00	GEN
Cascade Walk & Aerial Way Stwy (Handrails) Shepard Company	2-19-65	6-4-65	9,212.00	9,212.00	SRd
Laguna Honda Hospital (Modif. Water Supply) Mitchell Plumbing Co.	3-3-65	80%	11,707.00	8,460.00	GEN
Market St. & Portola Dr. (Resurf. & Sidewalk Constr.) The Lowrie Paving Co.,Inc.	3-17-65	6-5-65	4,924.79	4,924.79	SRd
Army Street Circle (Test Borings) J.W. Pitcher Company	3-19-65	10%	5,156.00	0	MS
R.S.S.T.P. (Modif. to Fac.) Baldwin Warren Co., Inc.	4-9-65	5%	746,760.00	31,410.00	60SB
Bosworth St. Widening (Test Borings) Laufenberg Bros., Inc.	4-2-65	0%	11,971.00	0	MS
North Point Sewage Treatment Plant (Feeder Cable Replacement) Brayer Elect.	4-30-65	50%	4,480.00	0	60SB

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 F-1 MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
Safety Lighting & Related Work (Contracts 1 & 2A) (Safety Lighting) Emsco Electric Corp.	6-2-65	0%	$ 40,1[illegible]2.46	$ 0	MS SRd
Lake Merced Pumping Station (Mech. & Elect. Alts.) Mitchell Plumbing Co.	6-9-65	0%	4,853.00	0	60SB
Islais Creek Bridge (Reconstruct North Tr.Gate) Enterprise Electric Works	6-9-65	0%	3,388.00	0	MS
Total Awarded & Expended During Fiscal Year			$1,190,270.08	$1,483,559.25	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1964-1965 F-2 INFORMAL CONTRACTS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETED DATE OR %	CONTRACT AMOUNT	AMT. SPENT 1964-1965	FUND
Sharp Park Golf Course (40"x65" Pipe Arch) Gravelle & McConnell, Inc.	4-29-64	8-18-64	$1,787.00	$1,787.00	GEN
North Beach Playground (Lght Pole Ser. Plat. Grd. Rail.) Elec. Constr. & Sales Co.	5-22-65	8-26-64	840.00	840.00	GEN
S.F. Zoo Paths (Replace of Base & Paving) The Fay Improvement Co.	7-17-64	9-17-64	1,957.00	1,957.00	GEN
Market Street No. Van Ness Ave. at Post St. (Traffic Sig. Sys. Modif.) Emsco Electric Corp.	7-22-64	9-30-64	666.00	666.00	GEN
Islais Creek Bridge (North Leaf Repairs) Arrow Steel Erect.	7-24-64	10-20-64	1,025.00	1,025.00	MS
Candlestick Park (Security Fence) Anchor Post Products	9-23-64	1-18-64	625.00	625.00	GEN
Parnassus Ave. W. of Arguello Blvd. (St. Lighting) Emsco Electric Corp.	12-18-64	50%	824.00	0	SRd
Golden Gate Park Hall of Flowers (Outdoor Lighting) Ets-Hokin & Galvan	2-26-65	90%	1,808.00	0	GEN
Midtown Terrace Playground (Protective Wall) Gravelle & McConnell, Inc.	3-3-65	6-24-65	957.00	957.00	GEN
Market Street Viaduct at Elizabeth St. (Chain Link Fence & Gate)	4-2-65	5-26-65	290.00	290.00	SRd
Total Awarded or Expended During Fiscal Year			$8,152.00	$8,147.00	

APPENDIX II

BUREAU OF ARCHITECTURE
CURRENT CONTRACT DATA SUMMARY
Showing All Contract Work Awarded or Under Construction
July 1, 1964 - June 30, 1965

Table	Type of Construction	Contracts No.	Awarded Aggregate Value	Amount Expended Fiscal Year 1964-1965
A-1	New School Construction	3	$ 1,062,951	$ 84,011
A-2	Misc. Alterations - Schools	66	2,344,557	845,838
A-3	Acoustical Work	2	5,702	4,175
A-4	Roofing Jobs	9	44,198	33,926
A-5	Resilient Flooring	2	6,684	1,974
A-6	Int. & Ext. Painting	30	361,962	144,925
A-7	Yard Paving	1	13,080	13,080
B-2	Fire Department Reconstruction	1	36,000	31,752
C-1	S. F. General Hospital	13	1,995,187	901,900
C-2	Laguna Honda Hospital	5	271,735	56,191
C-3	Health Center Building	3	961,194	211,433
D	de Young Museum	3	1,777,766	968,245
E	Youth Guidance Center	2	19,339	13,339
F	Civic Center	22	7,486,436	964,926
H	Miscellaneous	32	7,524,174	1,773,790
	Totals	194	$23,910,965	$ 6,049,505

On the following pages appear separate tables of current contracts for each of the types of construction listed above. The source of the funds used to finance each project is indicated in the tables according to the following:

Abbreviation Legend

Designation	Description of Fund
General	General Fund City and County
1956 School	Unified School District Bond Issue voted by citizens on November 6, 1956, $27,000,000
District	Funds of S. F. Unified School District

Child Care	S. F. Unified School District, Special Fund.
1954 Hospital	Hospital Bond Issue voted by citizens on November 2, 1954, $5,830,000.
Der. Maint.	S. F. Hospital Annual Budget.
Maint. and Repair	Laguna Honda Hospital Annual Budget.
1960 Museum	de Young Museum Bond Issue voted by citizens on June 7, 1960, $2,725,000.
1960 Aud.	Civic Auditorium Bond Issue voted by citizens on November 3, 1959, $7,575,000.
1958 Rec. Park	Recreation and Park Bond Issue voted by citizens on June 3, 1958, $1,575,000.
1955 Rec. Park	Recreation and Park Bond Issue voted by citizens on November 8, 1955, $7,248,000.
Road Fund	1962-1963 Road Fund Appropriation.
Roof Repairs - Phase II Improvements	Recreation and Park Department Budget Funds
1959 Rec. Park	Recreation and Park Bond Issue voted by citizens on November 3, 1959, $1,800,000.
Private	Private donation.
State Fund	State of California Funds.
1964 School	S.F. Unified School District Bond Issue voted November 3, 1964, in amount of $31,464,500.
1964 Fire	Fire Department Bond Issue voted November 3, 1964 in amount of $4,890,000.
1964 Juvenile	Bond Issue approved November 3, 1964, in amount of $1,300,000 for a Juvenile Camp School.

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
A-I NEW SCHOOL CONSTRUCTION					
City College (2200) Addition to Smith Hall Arntz Constr. Company	2-20-63	9-2-64	$374,434	67,882	1956 School
City College (2211) Ornamental Hort. Facility Wm. McIntosh & Son	2-27-63	99%	357,517	16,129	1956 School
Raphael Weill School (2517) New Addition John A. Nelson, Inc.	6-4-65	0	331,000	0	1956 School
Total Awarded and Expended During Fiscal Year			$1,062,951	$84,011	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date of %	Contract Amount	Amount Expended 1964-1965	Fund
A-2 MISCELLANEOUS ALTERATIONS					
Gen. Admin. Office Bldg. (2346) Alterations to 3rd Floor Martinelli Const. Co.	1-24-64	7-28-64	$97,057	$ 13,742	District
Giannini & Hoover Jr. High Schools (2344) Heat Detectors Elec. Const. & Sales Co.	2-5-64	10-10-64	13,358	8,790	1956 School
City College (2339) X-Ray Tech. Laboratory Nibbi Bros.	2-5-64	9-2-64	27,676	9,816	District
Francisco Jr. High School Rehab. of Homemaking Rooms Wm. McIntosh & Son (2358)	3-4-64	9-21-64	45,888	35,563	1956 School
Board of Education (2342R) Int. Flooring & Repair Martinelli Const. Co.	3-20-64	7-9-64	3,881	3,881	District
Various Schools (2373) Heat Detectors Elec. Const. & Sales Co.	3-25-64	1-25-65	11,804	10,668	1956 School
Washington Irving School Rehabilitation (2350) H. E. Rahlmann Co.	3-27-64	11-23-64	93,618	77,810	1956 School
Bryant School (2376) Waterproofing Robt. Thompson, Inc.	4-10-64	9-8-64	14,792	14,792	District

APPENDIX II

J. Lick Jr. High School (2382) Alt. to Cafeteria Line Wm. McIntosh & Son	4-22-64	9-11-64	3,106	3,106	District
J. O'Connell V & T Institute Engine Test Cell (2329) De Narde Const. Co.	4-22-64	4-5-65	18,213	18,123	District
McCoppin & Madison Schools (2393) Gutter & Leader Replacement Valley Sheet Metal Co.	4-29-64	7-2-64	6,165	6,165	District
Pelton Jr. High School (2371) Kitchen Refrigeration Unit Linford Air & Refrig. Co.	5-8-64	8-15-64	4,625	4,625	District
R. L. Stevenson School (2396) Classroom Alterations H. F. Rehlmann Co.	5-13-64	8-20-64	4,640	4,640	District
Jean Parker School (2365) Rehabilitation Martinelli Const. Co.	5-6-64	11-3-64	76,400	76,400	1956 School
Geo. Washington (2397) Rehabilitation Martinelli Const. Co.	5-6-64	11-6-64	29,038	29,038	1956 School
Various Schools (2398) Heat Detectors Elec. Const. & Sales Co.	5-13-64	1-26-65	14,889	14,889	1956 School
Presidio Jr. High School Alterations (2390) Wm. McIntosh & Son	5-6-64	10-13-64	21,339	20,961	1956 School

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date of %	Contract Amount	Amount Expended 1964-1965	Fund
A-2 MISC. ALTERATIONS (cont.)					
Hawthorne School (2410) Installation of Outdoor Loudspeaker System Dayco Electronic, Inc.	5-27-64	9-10-64	$ 485	485	District
Various Schools (2404) Acoustical Arthur Baum	5-27-64	9-8-64	27,724	27,724	1956 School
Polytechnic High School (2405) Alterations to Sewing Rooms Arthur Baum	5-27-64	9-8-65	9,811	9,811	1956 School
Various Schools (2414) Classroom Sinks H. E. Rahlmann	6-19-64	10-30-64	15,263	15,263	District
Various Schools (2413) New Yard Benches Gerell Enterprises, Inc.	6-24-64	10-21-64	1,669	1,669	District
Fairmount School (2411) New Water Service Goldman & Son	6-24-64	9-30-64	1,030	1,030	District
Geo. Washington High School Refinish Gym Floors (2416) Roma Hardwood Floor Co.	6-24-64	9-8-64	2,330	2,330	District
Various Schools (2422) Wire Mesh Enclosures H. E. Rahlmann Co.	7-10-64	11-17-64	9,956	9,956	District

APPENDIX II

Visitacion Valley School (2436) Heating & Domestic Water System Don Kane Company	8-18-64	12-9-64	$ 8,287	$ 8,287	District
City College (2435) New Parking Area Pacific Pavements, Ltd.	9-2-65	2-4-65	11,800	11,800	District
Raphael Weill School (2445) New Play Yard O. C. Jones & Sons	9-11-64	3-10-65	36,429	36,429	1956 School
Various Schools (2454) Heat Detectors Electrical Const. & Sales Company	10-7-64	11-24-64	11,726	11,726	1956 School
Polytechnic High School (2452) Metal Covered Walkways Arthur W. Baum	10-7-30	12-1-64	7,106	7,106	District
Dudley Stone School (2455) Elec. Service & Feeder Alt. Weidenthal-Gosliner Elec. Works	10-14-64	1-29-65	6,039	6,039	District
Various Nursery Schools (2469) Painting & Misc. Work Kenneth K. Lind	11-6-64	2-17-65	5,586	5,586	Child Care
Various Schools (2461) Heat Detectors Decker Elec. Company	11-6-64	5-28-65	13,493	13,493	1956 School

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date of %	Contract Amount	Amount Expended 1964-1965	Fund
A-2 MISC. ALTERATIONS (cont.)					
A. Lincoln High School Ext. Door Repairs (2462) H. E. Rahlmann Co.	11-6-64	95%	$ 4,281	0	District
Gough School (2463) Fire Alarm System Decker Electric Co.	11-6-64	5-7-65	3,207	0	District
John Adams Adult School New Light Fixtures Arvin Elec. Co. (2429)	11-13-64	2-26-65	4,993	4,993	District
Mission High School (2465) Replacement of Hot Water Piping System Jesse M. Lumsden	11-13-64	5-7-65	28,472	28,472	District
Aptos Jr. High School (2458-R) Acoustical Ceilings & Misc. Work Wm McIntosh & Son	11-18-64	1-4-65	1,272	1,272	District
Various Schools (2468) Heat Detectors Electrical Const. & Sales	12.11.64	90%	11,889	10,165	1956 School
Lowell High School (2472) Memorial Library Leon Carlen	12-23-64	4-30-65	8,630	8,630	District

APPENDIX II

Pacific Hts. Adult School New Light Fixtures (2482) Decker Electric Co.	1-6-65	5-1-65	$ 8,137	$ 8,137	District
John O'Connel Voc. High School Welding Booth & Equip. (2480) Arthur W. Baum	1-6-65	5-16-65	9,542	9,542	District
Various Schools (2422) Wire Mesh Enclosures H. E. Rehlmann Co.	7-10-64	11-17-64	9,956	9,956	District
Pacific Hts. School (2433) Main Switchboard & Feeder Alterations Decker Elec. Co. Inc.	7-29-64	3-3-65	6,208	6,208	District
School District Warehouse (2403) General Construction S. J. Amoroso Const. Co.	7-29-64	4-15-65	180,687	180,687	Real Property-Education
Geo. Peabody School (2430) Misc. Repairs Robt. L. Sage	7-29-64	1-13-65	4,360	4,360	District
H. Mann Jr. High School Elec. Service and Feeder Alterations (2438) Golden Gate Elec. Co.	8-5-64	12-24-64	10,880	10,880	District
Visitacion Valley School (2436) Alt. to Heating and Water System Don Kane Company	8-19-64	12-9-64	8,287	8,287	District

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date of %	Contract Amount	Amount Expended 1964-1965	Fund
A-2 MISC. ALTERATIONS (Cont.)					
Jean Parker School (2437) Waterproofing Parapet Wall A. Quandt & Sons	9-2-64	2-19-65	$ 4,292	$ 4,292	District
School District Alterations Warehouse Phase II (2464) Leon Carlen	4-16-65	4%	109,538	12,351	Real Property
Excelsior School (2504) General Rehabilitation Wm. McIntosh	4-30-65	0	160,377	0	1964 School
Mission High School (2519) Alter. to Shops Wm. McIntosh & Son	4-30-64	0	232,775	0	1964 School
Mission High School (2526) Elec. Service & Feeder Alterations Electrical Const. & Sales	4-30-65	0	19,279	0	District
Polytechnic High (2476) New Windows & Misc. Work Shop Bldg. Mertz Bros.	5-14-65	0	92,418.	0	1964 School
Various High Schools Outdoor Bleachers (2538) Safway Steel Products	5-12-65	0	145,072	0	1964 School

APPENDIX II

John Adams Adult School Electric Service & Feeder Alterations Emil J. Weber (2530)	5-12-65	0	15,999	0	District
John Adams Adult School Boiler Conversion (2529) & Heating System Alter. H. Goldman & Son	5-12-65	0	31,777	0	1964 School
Various Schools (2542) Stage Switchboards Elec. Constr.	6-4-65	0	15,251	0	District
Roosevelt Jr. Hs. (2450) Foods Laboratory H. E. Rahlmann	1-20-65	0	32,879	0	District
Hancock School (2475) Rehabilitation Leon Carlen	2-24-65	0	137,700	0	1956 School
John Adams Adult School Fire Sprinklers (2487) Fire Protection Eng. Inc.	3-10-65	30%	58,420	15,773	1956 School
Guadalupe School (2502) New Tack/Chalkboards Papsco Bldg. Products	3-17-65	0	4,639	0	District
Commodore Stockton School General Rehabilitation Leon Carlen (2488)	4-2-65	0	127,700	0	1956 School
Redding School (2496) Gen. Rehabilitation Wilner Constr. Co.	4-14-65	0	168,400	0	1956 School

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
A-2 MISC. ALTERATIONS (Cont.)					
Marina Junior High School Alterations for Fire Safety (2481) Leon Carlen	4-14-65	0	$ 23,727	0	1956 School
Samuel Gompers High School Conversion of Boilers to Gas Firing (2539) Cornely Company	5-26-65	0	$ 8,216	0	District
Total Awarded and Expended During Fiscal Year			$2,344,557	$845,838	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
A-3 ACOUSTICAL WORK					
Alvarado & Muir Schools (2389) Acoustical Ceilings Diablo Const. Co.	4-22-64	7-30-64	4,175	4,175	District
Various Schools (2545) Acoustical Treatment Cal Acoustics	6-4-65	0	1,527	0	District
Total Awarded and Expended During Fiscal Year			$ 5,702	4,175	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
A-4 ROOFING JOBS					
Various Schools (2425) Reroofing New Art Roofing Co.	7-3-64	2-15-65	$ 790	790	District
Alvarado School (2419) Bender Roofing Co.	7-3-64	10-1-64	11,529	11,529	District
Edward R. Taylor School (2424) New Art Roofing Co.	7-3-64	10-20-64	4,187	4,187	District
J. Denman Jr. High School New Roof Coating (2426) New Art Roofing Co.	7-10-64	11-12-64	4,876	4,876	District
Mission High School (2421) Reroofing & Misc. Work Arthur W. Baum	7-10-64	10- 1 -64	4,685	4,685	District
Monroe & Hawthorne Schools Roof Repairs (2427) Western Roofing Service	7-15-64	10-14-64	5,116	5,116	District
Grant School (2459) Roof Deck Repairs & Waterproofing Arthur W. Baum	10-21-64	2-16-65	1,947	1,947	District

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
A-4 ROOFING JOBS (Cont.)					
Visitacion Valley Annex New Porch Roof (2377) H. E. Rahlmann Co.	4-22-64	7-27-64	$ 3,387	$ 796	District
Winfield Scott School Reroofing (2493) Bender Roofing Co.	2-10-65	58%	7,681	0	District
Total Awarded and Expended During Fiscal Year			$ 44,198	$ 33,926	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or	Contract Amount	Amount Expended 1964-1965	Fund
A-5 RESILIENT FLOORING					
Various Schools (2431) Robert L. Sage	7-29-64	9-29-64	$ 1,974	$ 1,974	District
Resilient Flooring Ward 6A & 6B (2533) Hassler Health Home West Coast Linoleum & Carpet Company	5-14-65	0	4,710	0	Br Work Order 1718
Total Awarded and Expended During Fiscal Year			$ 6,684	$ 1,974	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
A-6 PAINTING					
Giannini Jr.High School(2361) D. Zelinsky & Sons	3-4-64	8-10-64	$13,969	$13,969	District
Geary School (2363) Robert Thompson, Inc.	3-4-64	8-18-64	6,200	6,200	District
F.S. Key Annex (2364) A. Quandt & Sons	3-4-64	8-10-64	11,980	11,980	District
Pacific Hgts.School (2370) J. Wm. Sorensen,Inc.	3-20-64	8-4-64	7,151	6,185	District
Hawthorne School (2368) R. P. Paoli & Co.	3-27-64	8-13-64	12,758	12,758	District
McCoppin & Laguna Honda Schools (2384) A. Quandt & Sons	4-22-64	8-21-64	14,720	14,720	District
Various Schools (2387) A. Quandt & Sons	4-22-64	8-20-64	10,700	7,330	District
Sheridan School (2388) J. Wm. Sorensen	4-29-64	8-19-64	13,989	13,989	District
Roosevelt Jr. High Sch.(2386) Painting, Waterproofing & Related Work Arthur W. Baum	5-8-64	9-8-64	35,925	35,925	District
Monroe School (2391) Russell Hinton Co.	5-22-64	7-15-64	7,743	7,743	District
Various Schools (2412) Painting Game Lines Fiberaised Bar & Line Co.	6-24-64	8-25-64	7,560	7,560	District

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
A-6 PAINTING (Cont.)					
Emerson School (2453) Auditorium Painting R. P. Paoli & Co.	10-21-64	1-4-65	$ 2,030	$ 2,030	District
Marina Jr.High School(2474) Exterior Painting R. P. Paoli & Co.	12-16-64	0	$11,035	$ 0	District
City College (2477) Science Building Russell Hinton Co.	12-23-64	40%	12,600	4,536	District
Ben.Franklin Jr.High School (2486) J. Wm. Sorensen, Inc.	1-6-65	0	13,134	0	District
Lafayette School (2489) J. Wm. Sorensen	1-20-65	0	7,098	0	District
Miraloma School (2491) R. P. Paoli & Co.	1-20-65	0	5,260	0	District
Lawton School (2503) R. P. Paoli & Co.	2-24-65	0	4,391	0	District
F.S. Key School (2505) J. Wm. Sorensen	2-24-65	0	14,304	0	District
Herbert Hoover School(2494) Russell Hinton Co.	2-24-65	0	13,466	0	District
Glen Park School (2507) Veteran's Painting Co.	3-17-65	0	6,495	0	District
Columbus School (2492-R) Russell Hinton Co.	3-17-65	0	5,069	0	District
Marshall School (2515) A. Quandt & Sons	3-17-65	0	24,317	0	District

A-6 PAINTING (Cont.)

Visitacion Valley Sch.(2516) R. P. Paoli & Co.	4-2-65	0	$ 9,185	$ 0	District
Samuel Gompers Sch. (2518) D. Zelinsky & Sons	4-14-65	0	24,545	0	District
Yerba Buena School (2524) Phoenix Painting Co.	4-23-65	0	7,200	0	District
A. Lincoln High Sch.(2531) W. G. Thompson Co.	4-30-65	0	30,224	0	District
Polytechnic High Sch.(2521) C.L. Disheroon Painting Co.	4-30-65	0	11,626	0	District
Galileo High School (2532) Russell Hinton Co.	5-12-65	0	8,750	0	District
Horace Mann Jr.High Sch.(2537) Wm. McIntosh & Son	5-26-65	0	8,538	0	District
Total Awarded or Expended During Fiscal Year			$361,962	$144,925	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
A-7 YARD PAVING					
Various Schools (2417) Yard Paving & Game Lines Highway Safety Supply	6-26-64	10-7-64	$ 13,080	$ 13,080	District
Total Awarded and Expended During Fiscal Year		-	$ 13,080	$ 13,080	

CURRENT CONTRACT DATA 1964-65

Description / Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
A-2 FIRE DEPARTMENT RECONSTRUCTION					
Engine Houses 5,42 & 48 Alterations (2423) De Nardo Const. Co.	10-2-64	99%	$ 36,000	$ 31,752	General
Total Awarded and Expended During Fiscal Year			$ 36,000	$ 31,752	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
C-1 - SAN FRANCISCO HOSPITAL					
Surgery Bldgs. 1,1A,1B,& 1C New Sheer Walls & Related Work (2291) Arntz Const. Co.	8-9-63	12-28-64	$ 134,718	$ 14,680	General
Automatic Sprinklers (2194) Fire Protection Engineers	5-13-64	98%	63,388	53,056	General
Pathology Bldg.,Animal Care & Research Facility (2375) S.J. Amoroso Const.Co.	5-25-64	51%	$1,198,650	636,304	1954 Hospital
Various Bldgs. (2195) Fire Alarm System Abbett Electric Corp.	6-17-64	3-26-65	114,644	114,644	General
Rewinding Generators 1 and 2 (2383) Elec. Const. & Sales Co.	7-15-64	2-9-65	14,769	14,645	General
Medi-Prep Units (2444) H. E. Rahlmann Co.	9-11-64	3-31-65	3,758	3,758	General
X-Ray Therapy Unit(2434) Room 8 H. E. Rahlmann Co.	9-18-64	4-1-65	7,386	7,386	General
Remodeling of X-Ray Dept. Service Bldg.#6 (2471) Wm. McIntosh & Son	11-20-64	99%	60,666	54,053	General
Ext. of Oxygen & Suction Units, Ward 12 (2432-R) Clausen-Patten, Inc.	2-17-65	19%	10,921	3,374	General

C-1 - SAN FRANCISCO HOSPITAL (Cont.)

Electrical Distribution System Parts of Steps 3,4,5,& 6 (2499) Brayer Electric Co.	2-17-65	40%	$ 38,575	$ 0	General
Remodeling of X-Ray Dept. 2nd Flr.,Service Bldg.(2498) Phases 1B & 1C Wm. McIntosh & Son	4-2-65	14%	77,444	0	General
Modernization of Surgical Area (2490) Bldgs. 1,1A,1B,1C Arntz Bros.	4-7-65	0	250,088	0	General
Passenger Elevator Modifications (2534) Psychiatry Bldg. #90 Westinghouse Elec. Corp.	6-2-65	0	20,180	0	General
Total Awarded and Expended During Fiscal Year			$1,995,187	$901,900	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
C-2 LAGUNA HONDA HOSPITAL					
Ward Bldg. "C" & Related Work (2270-R) Beacon Const. Company	10-2-63	9-25-64	$130,190	$ 31,359	General
Repairs to Roof Deck Covering (2415) Malott & Peterson-Grundy	6-19-64	8-14-64	5,587	5,587	General
Roofing Work (2541) Sunset Roofing & Siding Co.	6-4-65	0	3,976	0	General
Alterations to Ward A1, C2, C5 (2442) Arntz Bros.	1-22-65	16.6%	128,602	19,245	General
Resilient Flooring (2540) West Coast Linoleum & Carpet Company	5-21-65	0	3,380	0	General
Total Awarded and Expended During Fiscal Year			$271,735	$ 56,191	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
C-3 - HEALTH CENTER BUILDING					
T B Bacteriology Laboratory General Construction(2394) Robert L. Sage	8-5-64	3-18-65	$ 13,750	$ 13,750	General
Eureka-Noe Health Ctr.(2360) General Construction Stenmark Const. Co.	4-10-64	65%	410,100	197,683	General
Westside Health Ctr. (2520) General Construction ColWel Const. Co.	5-26-65	0	537,344	0	General
Total Awarded and Expended During Fiscal Year			$961,194	$211,433	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
D - deYOUNG MUSEUM					
Relocation of Women's Toilets (2352) Antone Petersen & Sons	1-15-64	8-31-64	$ 17,998	$ 5,799	General
Brundage Wing (2400) Gen. Construction Carl W. Olson	6-3-64	58%	1,723,100	925,778	1960 Museum
Demolition & Alterations in Warehouse Area (2402) Antone Petersen & Sons	7-10-64	2-25-65	36,668	36,668	General
Total Awarded and Expended During Fiscal Year			$1,777,766	$968,245	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
E · YOUTH GUIDANCE CENTER					
Addition to Maximum Security Cottage (2332) DeNarde Const. Co.	3-6-64	9-11-64	$ 16,260	$ 10,260	General
Reroofing Gymnasium (2420) Western Roofing Service	6-19-64	8-20-64	3,079	3,079	General
Total Awarded and Expended During Fiscal Year			$ 19,339	$ 13,339	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
F - CIVIC CENTER					
Auditorium Rehab. (1955-R) Perini Corp.	5-2-62	8-31-64	$6,621,071	$ 490,407	1960 Aud.
Auditorium Sound System (1955-R-SS) A.B. Loudermilk Co.	9-5-62	6-11-65	79,256	41,961	1960 Aud.
City Hall-SE Quadrant (2309) Alt. to Hoistways for New Elevators DeNarde Const. Co.	9-6-63	12-7-64	39,034	15,610	General
City Hall-SE Quadrant (2310) New Elevators Otis Elevator Co.	9-6-63	11-13-64	149,854	82,354	General
City Hall (2316) Centrex Telephone System Wilner Const. Co.	10-25-63	1-20-65	31,295	13,113	General
Opera House (2359) Stage Flooring Wm. McIntosh & Son	3-6-64	7-27-64	15,188	7,743	General
Main Library (2357) Alt. to Science & Technology Dept. Nibbi Bros.	5-27-64	1-8-65	33,671	33,671	General
Opera House (2366) Elevator Modernization Pacific Elevator Co.	3-20-64	8-7-64	43,030	43,030	General

F - CIVIC CENTER (Cont.)

City Hall-Extension to Elec. Data Processing Rooms (2345) Adam Arras & Son	4-10-64	11-24-64	$ 61,053	$ 53,506	General
City Hall-Remodel Old EDP Area (2418) Arthur W. Baum	7-17-64	12-30-64	17,245	17,245	General
City Hall-Alt. for Marriage License Bureau, County Clerk & Probate Crt. (2408) Wilner Const. Co.	8-7-64	4-7-65	73,360	73,360	General
Opera House (2440) Toilet Facilities Arthur W. Baum	8-14-64	98%	21,685	19,516	General
City Hall-Blueprint Room Addition (2395) Wilner Const. Co.	9-11-64	4-27-65	56,189	56,189	General
City Hall-Hoistways for (2449) New Elevators SE Quadrant DeNarde Const. Co.	10-9-64	35%	42,233	13,286	General
City Hall-New Elevators SW Quadrant (2448) Otis Elevator Co.	10-9-64	15%	144,519	0	General
City Hall-Additional Power for EDP Machines (2555) Weidenthal-Gosliner Co.	6-11-65	0	5,242	0	General

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
F - CIVIC CENTER					
Vet's Bldg. (2508) Alterations to Aud. Acoustical Tile Treatment Pritchard & Stone	2-17-65	4-7-65	$ 1,503	$ 1,503	General
City Planning Office (2483) Miscellaneous Work Kenneth K. Lind	2-26-65	0	2,741	0	General
Opera House (2500) Painting Work D. Zelinsky & Sons	3-26-65	0	5,835	0	General
Vet's Bldg. (2508-R) Museum of Art Painting Russell Hinton Co.	4-2-65	4-13-65	2,432	2,432	General
Auditorium (2495) Rigging & Pipes to Receive Basic Stage Curtains & Draperies B. F. Shearer Co.	4-2-65	0	37,800	0	General
Vet's Bldg. (2501) Service Bar in Green Room Nibbi Bros.	4-14-65	0	2,200	0	General
Total Awarded and Expended During Fiscal Year			$7,486,436	$964,926	

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
H - MISCELLANEOUS					
150 Otis St. (2322) Window Replacement & Related Work Antone Petersen & Sons	10-16-63	7-3-64	$ 9,958	$ 1,589	General
Various Rec. Centers (2353) Refinishing & Resealing Gym Floors Ivan P. Bodine	2-5-64	86%	8,790	3,481	General
150 Otis St. (2330) Elevator Modernization Pacific Elevator Co.	2-5-64	9-16-64	59,245	24,587	General
150 Otis St. (2380) Renovations to 4th & 5th Floors Antone Petersen & Sons	2-28-64	7-3-64	23,898	3,465	General
Kezar Pavilion (2343-R) Roof Repairs & Office Addition DeNarde Const. Co.	4-24-64	2-15-65	54,042	54,042	Roof Repairs Phase II Improvement
Hamilton Pool & Rec.Center Misc. Repairs (2354-R) Robert L. Sage	4-24-64	11-23-64	10,481	6,611	General
Kezar Pavilion (2372) Toilet Repairs Merz Bros.	4-24-64	5-3-65	15,252	15,252	General

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
H - MISCELLANEOUS (Cont.)					
150 Otis St. (2381) Renovation 2nd & 3rd Flrs. Antone Petersen & Sons	5-6-64	10-1-64	52,089	35,524	General
Hassler Health Home (2401) Fire Protection System Wm. McIntosh & Son	5-20-64	8-15-64	76,639	19,160	General
Coit Tower at Tel. Hill(2378) Miscellaneous Repairs Robert L. Sage	5-20-64	10-16-64	9,101	9,101	General
Hassler Health Home (2407) Linoleum Repairs West Coast Linoleum & Carpet Co.	5-13-64	7-15-64	3,159	3,159	General
Richmond-Sunset Sewage Treatment Plant (2369-R) Roof Repairs Sunset Roofing & Siding Co.	6-17-64	8-14-64	5,412	5,412	General
Palace of Fine Arts (2190) General Construction M & K Corporation	6-19-64	29%	6,813,394	1,513,912	1959 Bond Private State Fund
Hamilton Rec.Center (2392) Repairs & Refinishing Gym Floors Roma Hardware Floor Co.	6-26-64	2-10-65	1,550	1,550	General
Various Branch Libraries Alterations (2385) Wm. McIntosh & Son	6-19-64	11-27-64	15,884	15,884	General
Golden Gate Park Bandstand Platform (2362) Lakehurst Const. Co.	7-15-64	20%	9,200	0	General

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
H - MISCELLANEOUS (Cont.)					
A. J. Rossi Rec.Center (2439) Acoustical Corrections Western Asbestos Co.	8-19-64	11-12-64	$ 4,028	$ 4,028	General
150 Otis St. (2446) Window Replacement & Related Work Phase I Mattern Const. Co.	9-16-64	3-18-65	13,300	13,300	General
Legion of Honor Palace (2409-R) Theater Vent & Soundproofing Atlas Heating & Vent.Co.	9-16-64	0	4,773	0	General
Central Shops (2428-R) Twin Post Hoists Mattern Const. Co.	12-9-64	75.5%	38,975	20,695	General
Various Police Stations (2470) Women's Toilet Facilities Wm. McIntosh & Son	12-18-64	95%	15,916	12,176	General
Hunters Point Gym (2469) Painting & Misc. Repairs DeNarde Const. Co.	12-23-64	3-30-65	9,402	9,402	General
McLaren Lodge Office Annex (2497) Golden Gate Park Painting A. Quandt & Sons, Inc.	2-17-65	4-30-65	1,460	1,460	General

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	
H - MISCELLANEOUS (Cont.)					
Aquatic Park Bldg. (2443) Senior Center & Maritime Museum - Alterations & Additions Phase I Arthur W. Baum	4-9-65	0	38,756	0	General
Joseph Lee Rec.Center (2512) Painting Work Amity Painting Service	4-16-65	0	6,754	0	General
Glen Park Rec.Center (2513) Painting Work A. Quandt & Sons	4-16-65	0	6,016	0	General
Chlorinator Room Addition to North Beach Playground Natatorium (2514) Arthur W. Baum	4-16-65	0	7,405	0	General
Potrero Hill Rec.Center(2510) Painting Work Rainbow Painting	4-16-65	0	6,039	0	General
St. Mary's Rec.Center (2511) Painting Work Rainbow Painting	4-16-65	0	6,039	0	General
Western Add. Branch Library General Const. (2478) Leon Carlen	4-30-65	0	188,493	0	General
Wawona Convenience Station Repairs (2527) DeNarde Const. Co.	5-14-65	0	2,324	0	General

CURRENT CONTRACT DATA 1964-1965

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1964-1965	Fund
H - MISCELLANEOUS (Cont.)					
Japanese Tea Garden Entrance Gates (2528) Repairs Leon Carlen	5-21-65	0	$ 6,400	0	General
Total Awarded and Expended During Fiscal Year			$7,524,174	$1,773,790	

APPENDIX III

DEPARTMENT BUDGET

BUREAU	Allowances 1963-64	Allowances 1964-65	Expenditures 1963-64	Expenditures 1964-65
General Fund				
Accounts	252,257	257,754	242,817	247,405
Architecture	86,437	90,857	85,593	87,397
Building Inspection	982,869	1,124,449	980,566	1,104,103
Building Repair	3,154,092	3,345,064	3,159,227	3,221,438
Traffic Painting	249,784	261,845	242,077	250,661
Central Permit	61,964	71,355	61,441	68,261
Engineering	735,928	819,338	722,282	800,404
General Office	289,513	528,934	252,073	519,574
General Office Improvements	1,489,954	2,092,160	793,613	1,868,171
Sewage Pumping Stations	153,779	148,664	152,438	138,630
Sewage Treatment Plants	1,341,965	1,276,999	1,277,922	1,243,291
Sewer Repair	1,259,044	1,330,640	1,323,513	1,437,566
Street Cleaning	2,900,122	2,974,410	2,812,301	2,829,051
Special Gas Tax Street Improvement Fund				
General Maintenance	394,000	1,352,901	267,757	1,352,500
Construction	2,925,812	1,847,936	2,029,958	1,942,378
Bridges, Tunnels, and Underpasses	214,104	227,533	203,003	218,640
1.04 Cent Fund		2,163,800		209,162
Road Fund				
Street Repair	1,946,951	2,032,518	1,868,791	1,948,080
Traffic Engineering	997,697	1,055,791	987,452	991,838
General Maintenance	420,829	1,143,244	373,242	797,279
Construction	1,254,128	1,708,914	877,248	1,474,962
Street Planting	260,061	273,208	243,510	260,547
Street Planting Improvements	8,500	60,000	25,415	44,525
1.04 Cent Matching Fund		1,083,500		506,739
Total	21,379,790	27,271,814	18,982,239	23,562,602

Expenditures for capital improvements may not necessarily match allowances for any given year, since allowances may be forwarded from year to year until the project is completed.

APPENDIX III

WORK ORDERS TO DEPARTMENT

Fiscal Year 1964-1965

Bureau	Number of Cost Accounts	Total Allowance
Architecture	244	603,132.00
Building Inspection	3	10,566.38
Building Repair	473	1,321,663.47
Engineering	313	1,717,350.00
General Office (Contracts)	76	4,571,394.22
Total	1,109	8,224,106.07

Utica/Omaha, Ne
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